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The
CHEMIST AND DRUGGIST
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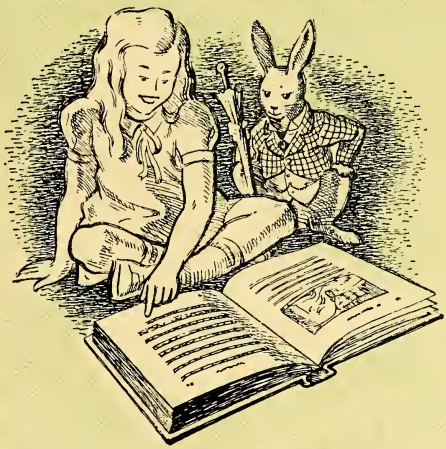
JUNE 26, 1948



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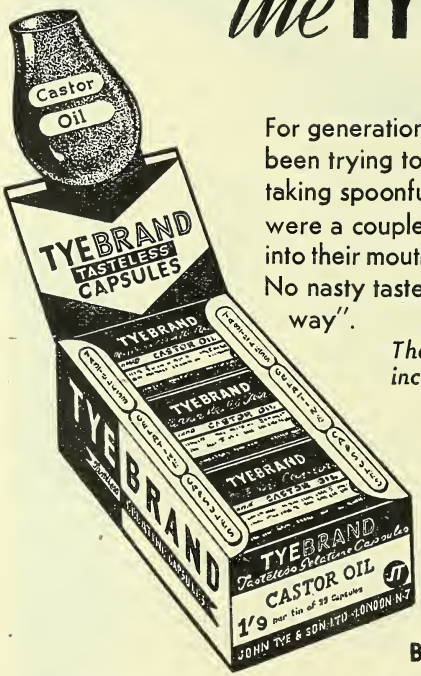

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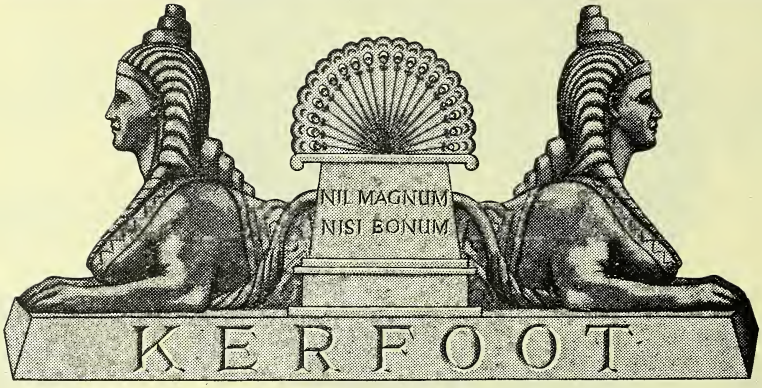

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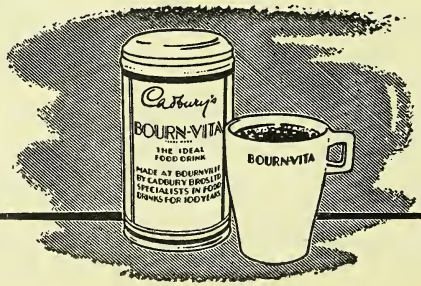

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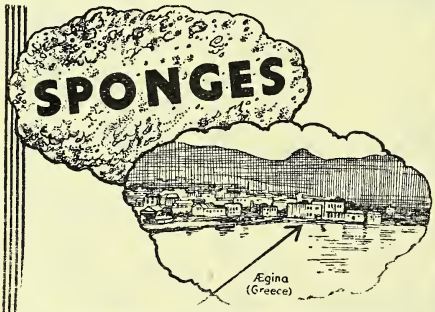

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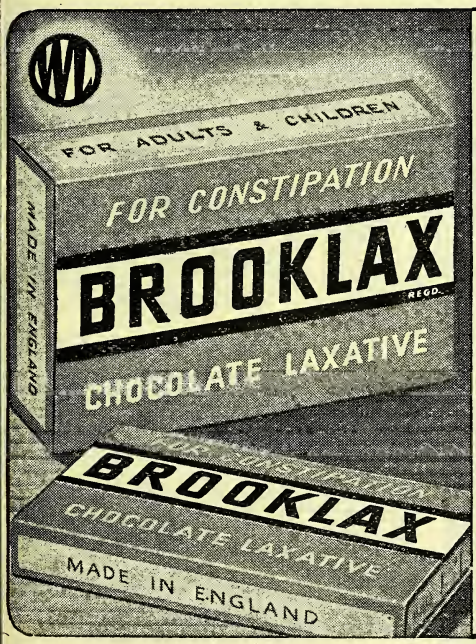

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are prepared for winter requirements and advise the trade, wholesale and retail, to book now the following lines:—
Liquorice and Menthol Pellets, bulk or packed; Menticule Lozenges; Coltsfoot Rock; Liquorice Sticks, ¼-oz. to 1-oz. and Sweetening Tablets, bulk or packed

MILLAMALT

The VITAMIN MALT FOOD

Sole Manufacturers With Vitamins (A. 6,500 I.U., D. 400 I.U. per fl. oz.)
JEFFREYS, MILLER & CO. Ltd. Leyland Mills, WIGAN, London Dept.: 19 Brookside Rd. N

N22

Victory·V
GUMS & LOZENGES
FRYER & CO. (Nelson) Ltd., NELSON, LANCS.

Compressed TABLET SERVICE
WHOLESALE & EXPORT
Reasonable estimates.
Clients' own material operated if desired.
The ...
DALES ASPIRIN AND TABLETING CO.
Barrows Lane, STEETON, Yorks.

Limited stocks are again available of

NURONA

Sunbronze and Suntan **CREAMS**

Made to a formula originally designed for sun-ray practitioners, the efficiency of Nurona is unsurpassed.

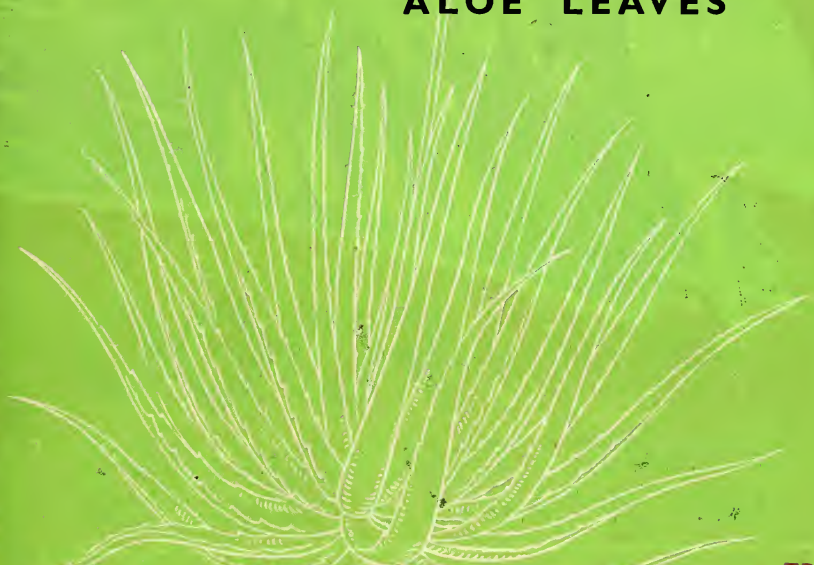
Nurona prevents or relieves painful sunburn and assists rapid tanning.

JAMES WOOLLEY, SONS, & CO. LTD.
Victoria Bridge, Manchester, 3

WN37

ALOIN

Manufactured at our Garden City Factory from the selected dried juices of the finest ALOE LEAVES



CARNEGIE CHEMICALS (WELWYN) LTD

(Associated with Carnegie Quinine Works Limited)

Manufacturers of Fine Chemicals

WELWYN GARDEN CITY

HERTFORDSHIRE

Telephone: Welwyn Garden 506 (4 lines)

Telegrams: Carnechem, Welwyn Garden

Please note the above is the only address of our Offices, Works and Laboratories

Forbes' Malted Slippery Elm — FOOD

A MOST VALUABLE FOOD FOR INFANTS & INVALIDS

1lb. size	2/3	doz.	20/-
2lb. size	4/-	doz.	36/-

Proprietors: BROOK, PARKER & CO. LTD., BRADFORD, ENG.

When you stock and recommend the new M&B preparations

'PHYTODERMINE' trade mark
cream

and

'PHYTODERMINE'
dusting powder

M&B

for the prevention and treatment of ATHLETE'S FOOT and certain other fungous infections of the skin

—you can rely on "repeat" sales

because **1. the products are effective 2. presentations and show material are attractive 3. advertising and propaganda will be intensive**

In addition to your usual discounts we offer you
BONUS TERMS OF THIRTEEN TO THE DOZEN
for both cream and dusting powder.

Supplies: *'Phytodermine' cream 1 oz. jar 2s. 6d. + 6½d. P.T.*
'Phytodermine' powder 2 oz. canister 2s. 9d. + 7½d. P.T.

manufactured by **MAY & BAKER LTD**

48022

distributors
PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD DAGENHAM

IMPORTANT ANNOUNCEMENT

To all users of GUM TRAGACANTH

- GROUND by a special process to ensure controlled tenuity.
- VISCOSITY established under expert supervision.
- TESTED at every stage of processing.
- GRADED to a series of predetermined standards.
- PACKED in airtight tins.

YOUR INDIVIDUAL REQUIREMENTS ARE PROVIDED FOR BY RED CARNATION BRAND POWDERED GUM TRAGACANTH, WHICH IS NOW AVAILABLE IN FOUR STANDARDISED GRADES, OF CERTIFIED QUALITY AND CHARACTERISTICS.

GUM TRAGACANTH is an essential ingredient in many industrial and pharmaceutical formulæ. Being a natural product, with natural imperfections and variations, its commercial applications have, in the past, been attended by problems arising whenever the characteristics of an ingredient are not stable. Now—these problems have been solved by the marketing of RED CARNATION Brand Gum Tragacanth. Whenever you order RED CARNATION Brand Gum Tragacanth, and whatever Grade you order, you know what you will be receiving—Gum Tragacanth in a stabilised form as regards viscosity, colour and fineness of powder. In addition, you are certain that the Gum Tragacanth you receive is fresh, as the large turnover of RED CARNATION Brand obviates the risk of the Gum in stock deteriorating through long storage.

GRADES			
1	2	3	4
BXXX	BXX	BX	BA

- If you have any queries regarding RED CARNATION Brand Gum Tragacanth—*e.g.* which Grade is most suitable to your requirements—our Research Department will be pleased to advise you.

The literature dealing with Gum Tragacanth is not readily accessible to the average commercial user. On request, you can obtain a free, 12 pp. illustrated booklet, telling *The Story of Gum Tragacanth.*

RED CARNATION BRAND
Powdered Gum Tragacanth

KIMPTON BROS. LTD.

Established 1882

Dept. C.D.1—110 Fenchurch St., London, E.C.3 Telephone: ROYal 5544 (4 lines

StaffAllenS

FOUNDED 1833

MEDICINAL RESINS and OLEO-RESINS

SCAMMONY · JALAP
OLEO-RESIN GINGER
OLEO-RESIN CAPSICUM

Send us your enquiries

STAFFORD ALLEN & SONS LTD. Wharf Road, London. N.1. 'Phone CLErkenwell 1000 (7 lines)

TAS/AL 237

ANTI-BI-SAN LTD.

ANNOUNCE

1 THAT as from 1st JULY 1948 ANTI-BI-SAN will be distributed by

FASSETT & JOHNSON LTD.
86 CLERKENWELL ROAD
LONDON, E.C.1

2 THAT A **BONUS OFFER** of 12 invoiced as **10** will operate as from 1st JULY 1948 for a LIMITED PERIOD ONLY

—o—o—o—o—o—

STOCK AND SELL THE MEDICALLY APPROVED 'FLU AND COLD PROPHYLACTIC (3-day only treatment). YOU WILL BE SUPPORTED WITH **NATIONAL ADVERTISING; PROPAGANDA AND DISPLAY MATERIAL**

—o—o—o—o—o—

ORDER NOW!

ANTI-BI-SAN RETAINS ITS EFFICACY FOR **3** YEARS

Prices

	CHILDREN	ADULTS
Public—inc. pur. tax.	**4/8** each	**6/3** each
Trade— ,, ,, ,,	**45/-** per doz.	**60/-** per doz.

"ABECEDIN"

for all conditions of

VITAMIN DEFICIENCY

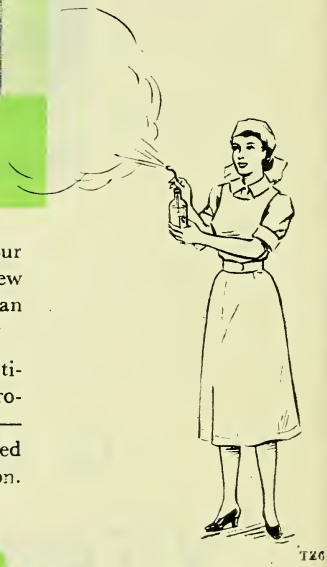
NAPP

CLASSICAL ETHICAL PRODUCTS

For purifying the air

in

PUBLIC ROOMS
CINEMAS
OFFICES
SHOPS
WAREHOUSES
FACTORIES
AND THE HOME



The increasing popularity of Zoflora encourages our belief that Chemists will welcome this excellent new outfit. We are now producing in quantity and can deliver quickly from stock.

Zoflora is a genuine germicide prepared from antiseptic aromatic oils (and also contains a small proportion of D.D.T.). It is fragrant and refreshing—ideal for the sick-room and beneficial in any enclosed area. In Bouquet, Lavender, Jasmine and Carnation.

Zoflora

perfumed DISINFECTANT

Complete Spraying Outfit as illustrated ..... **10s. 6d.** RETAIL
Sold also in **2/-, 7/-** & **13/6** *bottles.* ... *Less usual Trade Discounts*

THORNTON AND ROSS, LTD. . HUDDERSFIELD . ENGLAND

SPECIAL DISPLAY OFFER

Get this *Wisdom* REGD. demonstrator display FREE

THE BLACK-AND-WHITE photograph above cannot do full justice to the new all-metal Wisdom display stand. Against its clean matt black finish, the colourful *Extra* brushes in their smart blue packs stand out in brilliant contrast. The specimen brushes at the bottom enable customers to test for themselves the textures available. This display is in fact a real sales tool. It not only shows brushes. It sells them.

The stand, together with three display brushes, will be supplied free of charge to every stockist ordering a parcel of three dozen Wisdom Extra. This includes 1 doz. Extra Hard, 1 doz. Hard, 1 doz. Medium texture. The total cost to you is £1.17.6d. plus 12s. 6d. purchase tax. The retail price of Wisdom Extra is 1s. 11d., showing a profit of 19s. on the parcel — a fraction over 50% on cost.

Order at once on the form below or through your usual wholesaler. This offer expires on August 15th.

ORDER FORM

Please supply through the wholesaler named on right..... special display parcel(s) containing 3 doz. Wisdom Extra (1 doz. Ex. Hard, 1 doz. Hard, 1 doz. Medium), 1 free display stand and 3 free display brushes. Price 37 6 (plus 12 6 purchase tax). I will use this display at least one month.

NAME & ADDRESS:

WHOLESALER:

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For Immediate Delivery

The Macaulay Range

Macaulay's Lung Syrup
Macaulay's Bronchial Tablets
The Bronchial Mixture for Diabetics
The Tonic Elixir

B.P. Chemicals A. & W.

Bicarbonate of Soda
Epsom Salts *Boracic Powder*
Boracic Crystals
Glauber Salts *Borax*
White Fullers Earth

Tablets

Retrodol *Aspirin*
Effervescent Sulphur Lime Tablets

Toilet Products

Fairtasy Face Powder
Fairtasy Lipstick

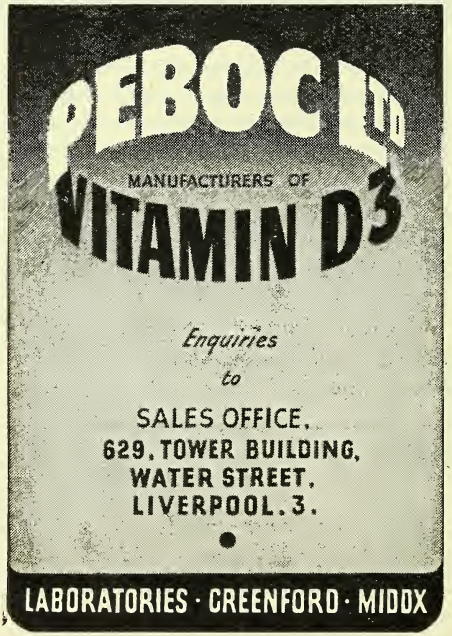
The Allcock Range

Ashley & Weeks Ltd. are Sole Distributors in Great Britain for :—
Scan Eye Lotion
Nailoid *Velvs* *Tubol*

ORDER FROM YOUR WHOLESALER OR DIRECT FROM:

Ashley & Weeks Limited

165 Mitcham Road, London, S.W.17 Telephone: Balham 4416



We have over 60 years experience of making pills, capsules and tablets for home and overseas

HOWARD LLOYD & CO. LTD. LEICESTER

The Chemist's Case Book

The Chemist to-day is psychiatrist, near-physician and counsellor all rolled into one. A dozen times a day he is called upon to give the benefit of his knowledge and experience.

Over-tiredness

Physical and mental tiredness often induces people to eat heavily at the very time when their digestion is least able to cope with it. The Chemist who recommends a course of Benger's Food last thing at night to customers who are " not up to the mark " is giving sound advice. Benger's Food is rich nourishment in a partially pre-digested form, easily digested and soothing to both stomach and nerves. Moreover a course of Benger's Food provides a steady and continuous sale. 90 per cent. of a Chemist's customers are potential buyers of Benger's Food.

Benger's Food

Important!

Benger's Food is not to be confused with ordinary bed-time drinks. It is a partially pre-digested milk *food*. Benger's to-day is as easy to make as a cup of cocoa.

BENGER'S LTD., HOLMES CHAPEL, CHESHIRE

ADAPTOPLAST
BENZ CLENZ
CARNATION CORN CAPS
CELLANBAND BANDAGES
CERABAN BANDAGES
DENTOSINE
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G.P. GERMICIDE
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MINSTER SERIES
OZOMINT TOOTH PASTE
REGULOL
SANOID SERIES
SYLVIA TOWELS
THERMOID SERIES
VARIBAN BANDAGES
ZUDOR JACKETS

Obtainable only direct from:
CUXSON, GERRARD & CO., LTD.
OLDBURY, BIRMINGHAM

ANITA
SANITARY
TOWELS

All white soft wool with loop ends
Knitted covering

HYGIENIC
HIGHLY ABSORBENT
BEAUTIFULLY SOFT
ECONOMICAL

M. MERICA & CO. LTD.
QUEENS MILL
20 SHAW ROAD, OLDHAM
LANCS.
TELEPHONE: MAIN 5803

★ *A delightfully scented hand jelly strongly advertised. Attractive show material available.*

Marion Moore's
WITCH HAZEL JELLY

Marion Moore's Witch Hazel Jelly . . . containing glycerine and lemon oil. In handy tubes 1/6 retail (including Purchase Tax). Price to retailer 7/- per doz. Purchase Tax, 7/- per doz.

Distributors to the Chemist Trade
E. DAVIDS & Co. Ltd., 378 Essex Rd., Islington, N.1
Tel. No.: CLI 5571

HANNETTA LTD.
Humber Road, London N.W.2

MAKERS OF Marion Moore's LIQUID SHAMPOO

P.A.T.A.

A GOOD SHOW

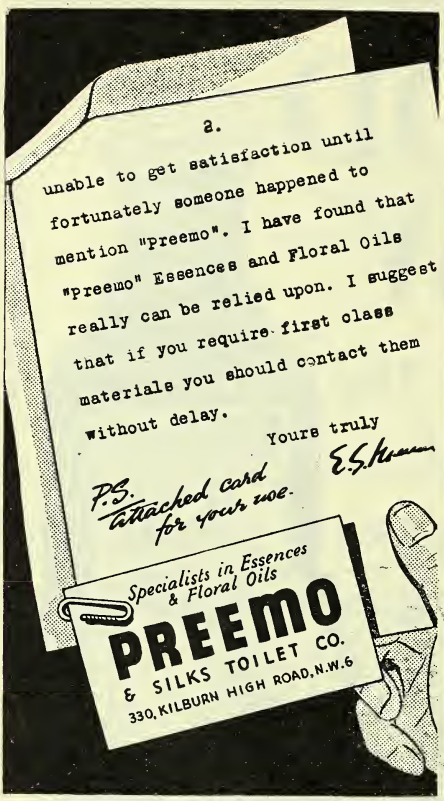
will bring in the customers!

Beecham Home Medicines act as a magnet, and bring a steady flow of regular business to your counter. For that reason it is sound business policy to maintain displays of:—

BEECHAM'S LUNG SYRUP
BEECHAM'S PILLS
BEECHAM'S POWDERS

Colourful show materials are available on request to enable you to make attractive displays of these popular, quick-selling lines, whilst consistent Press and outdoor advertising provides a strong supporting link between the customer and your premises.

All enquiries should be addressed to:
BEECHAMS PILLS LTD
ST. HELENS,
LANCASHIRE



PREEMO LIQUID COLOURS

For Lotions, Frictions, Shampoos, Bath Salts, Oils, Creams, Pomades, Powders and Perfumes

★ ***PRICE LIST ON REQUEST***

PREEMO

The Essence of a Good Perfume

PREEMO & SILKS TOILET CO
330 KILBURN HIGH ROAD · N·W·6
PHONE: MAIDA VALE 3234

KAY goods come 'off the ration'

FLYCATCHERS

Honeypot, Viper, Tom Thumb, Gorgon

DDT Flykillers

"Lanterns" (4d.) Katydid (2d.)
also APEX DDT Insect Guns

ERA Moth Cartridges and Sheets
ERA DDT Flyspray
DAK (Birdlime) for Mice and Rats tubes 1/-; tins 1/9, 3/-
KAYBRO ANTI-MIDGE, tubes 1/6

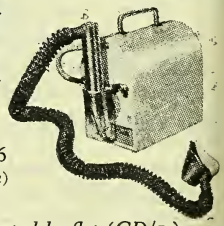
Write for samples and prices:

KAY BROTHERS LTD.
Kayborough, Reddish, STOCKPORT

INHALATION THERAPY

BY THE 'AEROLYSER'

Recommended by Doctors for use with penicillin and other therapeutic substances. Portable, simple to use, will work off any power point, and needs no oxygen tent or cylinders.



Price £27 . 2 . 6
(including face mask)

Write for illustrated leaflet (CD/1.)

AEROSOLS LIMITED,
65 OLD BROMPTON RD., LONDON, S.W.7
Phone: Kensington 7495

Top Radio Stars now go to work for YOU selling KOLYNOS

TRADE MARK

DENTAL CREAM

STANELLI & Marise: O.K. for Smiles!

RADIO star Stanelli entertains Marise, his 11-year-old daughter. Her smile is as pretty as her party dress. Her famous father has taught her his sure way to keep smiles radiant—'Kolynos' morning and night. "Tastes lovely", she says, and its lustre-foam keeps teeth sparkling white and clean. Make your smile winning—change to 'Kolynos' Dental Cream today

KOLYNOS

TRADE MARK

DENTAL CREAM

Its refreshing lustre-foam MAKES YOUR TEETH SHINE LIKE THE STARS

Here are Stanelli and his attractive daughter Marise

THIS ADVERTISEMENT with its unusual appeal will be seen and read by millions—in all the leading newspapers and magazines.

Among other Stars helping you to sell 'KOLYNOS' Dental Cream are Stanley Holloway and son, and Vera Lynn and daughter. Look out for them in your paper — your customers will.

Millions of tooth paste users are turning to the fine dental cream preferred by their radio favourites. Remind your customers to buy their 'KOLYNOS' from you. Display 'KOLYNOS' on your counter and in your window. There are attractive cards showing the Stars and their children — they will be sent to you free on request.

Also available is a valuable *free* perspex display unit for quantity orders.

INTERNATIONAL CHEMICAL CO. LTD.

CHENIES STREET, LONDON, W.C.1

Of good report

EVIDENCE grows, reports multiply - from hospitals, doctors, and nurses - that 'Dettol' Ointment is promptly soothing and remarkably helpful in healing. It is now used for sore, inflamed, cracked or erupted conditions of the skin which call for a treatment both sedative and antiseptic.

You can recommend with confidence

'DETTOL'

OINTMENT

Soothing and Actively Antiseptic

"SURCO"

RELIABLE

ELASTIC HOSIERY

SEAMED AND SEAMLESS

For special garments to measure we give the best possible service

SURGICAL BELTS
TRUSSES AND SUNDRIES

50 years' service of everything Surgical

SURGICAL HOSIERY CO. LTD.

Russell Street • NOTTINGHAM

Telephone No. 75903 Telegrams: Surgical Nottm

PROMPT DELIVERIES

OF

"Sentinel"

ALL COTTON WOOL

SANI-TOWELS

"with the soft seamless knitted covering"

A new cotton wool plant and knitting machines are now in operation at our factory, so that we can deliver your orders promptly.

STANDARD AND MATERNITY

also

'KUMFEX' SOLUBLE

(all with loop ends)

SPLENDOR SANITARY BELTS

SPLENDOR LTD. Nottingham & London

Two Pre-war Favourites—Available Again!

"SHELL" Series
SUNBURN LOTION

A liquid cream of exceptional soothing property, delightfully perfumed.

A customer writes —"Definitely the **finest** lotion on the market."

"MAGIC"
SUNBURN LOTION

A wonderful **PREVENTIVE** against sunburn.

Equally effective in relieving sunburn.

NOT OF THE CALAMINE TYPE. **NON-OILY**

8/6 doz. (plus 100% Pur. Tax) Prices not applicable to I.F.S. **10/6 doz. (plus 100% Pur. Tax)**

Phone: Stepney Green 2022

HARKER, STAGG & MORGAN LTD. EMMOTT STREET, LONDON, E.1.

Teesdale Works Limited wish to remind the trade that their drinking tubes in packets are now being made available in larger quantities and are being distributed to wholesale houses to whom all enquiries should be made regarding supplies.

We shall be pleased to send samples and prices to our wholesale and retail customers, old and new.

Issued by:
Teesdale Works Limited
14 Whitecross Place, Wilson Street
London, E.C.2

Boraline Cream
Bulacones - Corubin
Rubilax Tablets

AND ALL OTHER
'BORALINE' PRODUCTS

★

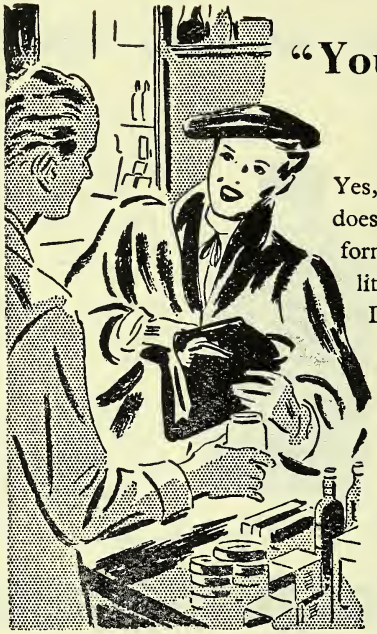
These well-known products are now available to Chemists in attractive packs

★

Prices and further details on application to

BORALINE LTD

REG. OFFICE
26 PARK ROW - LEEDS 1
Tel: LEEDS 24005



"You will find Musterole really *inexpensive*"

Yes, inexpensive because Musterole lasts longer, does more good. Read the fine Musterole formula — you'll agree that it *should* cost a little more. The best products always do. Don't forget — recommend Musterole. Your customers will thank you for it.

Musterole sells at 3/2 per pot and *brings you 3/8 per doz. extra profit over normal quality vapour rubs.*

MUSTEROLE BRAND

MUSTARD OINTMENT

★ *All the comforting warmth of a mustard plaster — but easier to apply — you simply rub it in.*

FOR PROFITABLE REPEAT BUSINESS!

IT PAYS to include DENSHEEN with all Tooth Brush and Dentifrice Displays

UNSURPASSED in VALUE and SALES APPEAL

Export Enquiries Invited

DENCIL MANUFACTURING Co. LTD.

21 CAMBRIDGE ST., LIVERPOOL, 7

DRUGS, GALENICALS, PROPRIETARIES

Makers of 'Vitasac'

R. SUMNER & CO. LTD.

HANOVER STREET - LIVERPOOL, 1

'CONTENTA' GRIPE MIXTURE *for* BABIES

"The label sells it"

BLACKWELL HAYES & CO. LTD., *Wholesale Druggists*
54-58 MOOR STREET, BIRMINGHAM, 4

D.C.L. VITAMIN B_1 YEAST TABLETS

Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin Hydrochloride, 1·4 mgm. of Riboflavin, and 8 mgm. Nicotinic Acid. Each tablet contains 100 I.U. (approx.) Vitamin B_1.

100 TABLETS 3/9d. 50 TABLETS 2/3d.

MANUFACTURED BY

THE DISTILLERS CO. LTD., EDINBURGH.

SUPPLIES IN BULK
from **GLAXO**

Enquiries are invited from bulk purchasers requiring refined and semi-refined

CHOLESTEROL

CALCIFEROL B.P.
(pure crystalline vitamin D_2);
and **VITAMIN D3**
concentrate

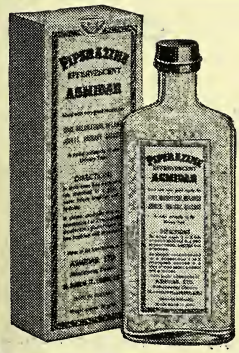
Details and quotations from Bulk Sales Department

GLAXO LABORATORIES LTD.,
GREENFORD, MIDDX. BYRon 3434

GLAXO

ASMIDAR SPECIALITIES

PIPERAZINE



This highly efficient antiseptic of the Urinary Tract is prescribed for Gout, Rheumatism, Inflamed Joints, Urinary Calculli.

Other Asmidar Specialities include Glutonine (Asmidar), Sulphazol Cream (Asmidar) and Ichthammol B.P.

Literature and full information gladly supplied on request

ASMIDAR LTD.
16 DOUGLAS STREET, LONDON, S.W.1
Telephone: VICTORIA 5556

ALUMINIUM COMPOUNDS for PHARMACEUTICALS

★

With over one hundred years' experience in the manufacture of heavy chemicals, SPENCE have recently developed a number of aluminium compounds for pharmaceuticals.

Further details will be sent on request.

PETER **SPENCE** & SONS Ltd
National Buildings · Manchester 3
London · Bristol · Goole · Widnes

1850

Delavelle

ESTABLISHED 1880

Reduction in Prices

THE PRICES of several of our leading lines have been reduced as from 1st May, 1948 and we have initiated terms of business on the basis of cash/quantity discounts to give customers the maximum profit in the marketing of our Blue Orchid Series and other Delavelle products.

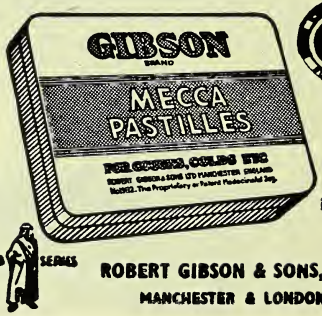
You are invited to apply for a copy of our new price list and our new special terms of business. If preferred, our area representative will be pleased to make a personal visit and show the full range of samples of our varied products.

DELAVELLE (G.B.) LTD.
38/46 ORSMAN ROAD, KINGSLAND ROAD, N.1.

It's easy to remember

'MECCA'

COUGH PASTILLES



Retail Price 1/8 per tin incl. tax

ARAB SERIES

ROBERT GIBSON & SONS, LTD.
MANCHESTER & LONDON

'SEPTISOL'

for Diaper Rash

NURSERY OINTMENT

★

'SEPTISOL'

for Better Baby Bathing

BABY SOAP

★

Give Profit and Prestige, and ensure Repeat Demand Constant Advertising makes every Mother Familiar with these Products

'SEPTISOL' LIMITED
28 KENNEDY ST.
MANCHESTER 2.

d-TUBOCURARINE CHLORIDE

THE PURE CRYSTALLINE CURARE ALKALOID FOR SECURING MUSCULAR RELAXATION

Each batch is chemically assayed and biologically tested

COLCHICINE

THE PURE ALKALOID OBTAINED FROM COLCHICUM AUTUMNALE FOR USE IN TREATMENT OF GOUT, ASTHMA, CEREBRAL CONGESTION AND URÆMIA

Complies with the requirements of the U.S. Pharmacopœia

DULCIN

SYNTHETIC SWEETENING AGENT USED FOR CANNED FRUIT AND MINERAL WATERS

Complies with the requirements of the Ministry of Food Specification.

Manufactured by

PAL CHEMICALS LIMITED

PALORIT HOUSE, 11 HARROW ROAD, LONDON, W.2

PADdington 8261

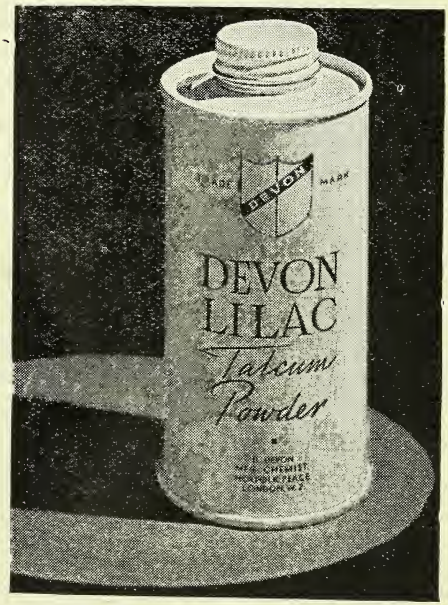
The DISTINCTIVE Powder Puff

Iris QUALITY POWDER PUFF BRITISH MADE

Iris QUALITY POWDER PUFF

Telephone TEMPLE BAR 4220 – 4229

J. ELLIS & CO. (LONDON) LTD. 55 & 62 LONG ACRE, LONDON, W.C.2



Sole Distributors for United Kingdom
Stanwhite Ltd., Parkhouse Wks., London, S.E.5. Rod 4416

Heading for Speedier Sales!

News! Increased advertising is spreading the story of BIOCRIN—the proved Shampoo-Reconditioner. Through more magazines more women are learning about this health-and-beauty treatment.

A Large Profit Margin and Regular Clientele For You!

Retail Sizes 18/6 and 30/- per dozen (plus 33⅓% tax) retailing at 3/- and 5/- each

Biocrin pomade shampoo

A product of Vine's Biocrin Ltd., London, W.2

VALDOR
LONDON PARIS

LIPSTICK *Guitare*

SUPER INDELIBLE
—does NOT come off!

in 8 transparent shades which are smearless and smudgeless and remain fast to eating, drinking, etc., for at least 8 hours.

ROUGE *Guitare*

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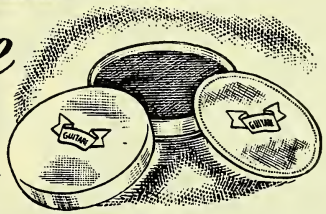

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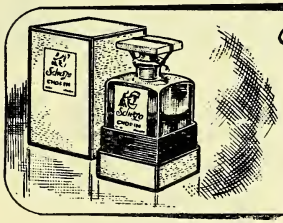

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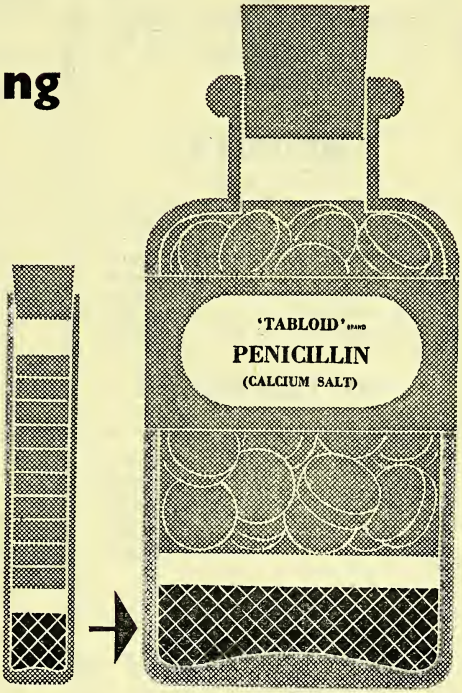

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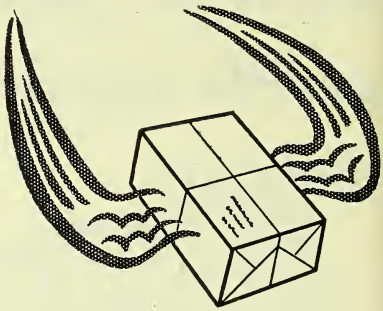

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JUNE 26, 1948
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NEWS OF THE WEEK

Import Licence Warning.—The Board of Trade issues a warning that sellers or buyers of import licences are liable to criminal proceedings and cancellation of licences; offenders may be refused further licences.

K.I.D. Exemptions. — Ammonium perchlorate, dibutyl phthalate, dimethyl phthalate and dioctyl phthalate have been exempted from Key Industry Duty for the period June 19—August 19 by a Treasury Order S.I., 1948, No. 1256. The Board of Trade is now considering the renewal of existing exemption Orders.

Soft Drinks Order Amended. — The Minister of Food has amended the Soft Drinks Order, 1947, so that a manufacturer of flavouring compounds (which are technically soft drinks but may not necessarily conform to the provisions of the Order) may sell his products to other manufacturers for use in their business without contravening the Order.

Face-cloth Prices.—The maximum price of face-cloths controlled under S.R. & O's 1945, No. 300, and 1947, No. 2641, was increased on June 21 from elevenpence to one shilling by the Miscellaneous Haberdashery (Maximum Prices) (Amendment) Order, 1948. The increase is to allow for the recent increase of purchase tax from 50 per cent. to 66⅔ per cent.

Rheumatic Association. — The inaugural meeting of the British Rheumatic Association was held in London on June 17. The purpose of the Association is to direct attention to the rheumatic sufferer's needs and, in co-operation with the Empire Rheumatism Council, to stimulate interest in the results of research. Membership is open to all sufferers from the disease.

Purchase Tax on Witch Hazel.—Under a new ruling by the Customs and Excise authorities, distilled witch hazel may be supplied free of purchase tax provided it is labelled in accordance with the requirements of the Finance (No. 2) Bill, and that no reference is made to any toilet uses. Otherwise, it is taxable. Labelled as a mouth-wash, for example, it is taxable at 33⅓ per cent.; as an astringent for the skin, at 100 per cent.

Drug Trade Production Census.—The preliminary report (No. 4) of the Census of Production of chemicals, drugs and dyestuffs ("Board of Trade Journal," June 12) includes tables showing the production in quantities of a number of drugs and pharmaceuticals in the years 1937 and 1946. Other tables give details of output and sales of the principal products of the industry; production, imports and exports; materials, fuel and electricity consumed; summary of employment, wages and salaries (*a*) in private firms and (*b*) in Government departments.

Issue of New Insurance Cards. — New National Insurance cards to replace existing health and pensions cards and unemployment insurance books (which expire on July 4) are to be issued from Employment Exchanges and local Ministry of Labour offices. Where an employer arranges to exchange his employees' cards, any employees who are voluntary contributors under those schemes should give their cards to the employer during week beginning July 5. Other insured persons, including voluntary contributors who are self-employed or non-employed, should themselves exchange their current cards. To avoid reduction of benefit under the new scheme, insured persons should stamp their 1947-48 health and pensions cards for any week for which a contribution was not payable by an employer or excused because of sickness or unemployment. Contribution cards should not be sent to Approved Societies or to offices of the Ministry of National Insurance.

LOCAL NEWS

Edinburgh v. Glasgow Golf. — The results of the annual golf match between Edinburgh chemists and the Glasgow Pharmacy Club, held at Muirfield, nr. Edinburgh, on June 1, were as follows:—Singles: Glasgow 9 wins, Edinburgh 7 wins, 4 games halved; Foursomes: Glasgow 6 wins, Edinburgh 4 wins.

London Packaging Conference. — The speakers at a packaging conference held in London on May 26 by Boxfoldia, Ltd., included Mr. J. R. and Miss Beryl Foyle (joint managing directors), Mrs. C. M. Wakeman, M.Sc. (on the application of chemistry to carton manufacture), and Mr. Norbert Dutton (on the designer's function).

Discussion on N.H.S. Terms. — At a meeting of the Wimbledon Pharmacists' Association on June 17, Mr. J. Stewart presented a report on the conference of National Pharmaceutical Union and Pharmaceutical Committee representatives held earlier that day. Many questions on the terms of payment and service were answered by Mr. F. C. Wilson.

"Gas Company" Dispensing to Terminate. — The special dispensing service provided by London and certain provincial chemists under an insurance scheme operated for its members by South Metropolitan Gas Company is to terminate on July 3, and doctors are being notified that the special prescription forms then cease to be valid. Details of the arrangements for submitting scripts for pricing and for the final settlement of accounts are to be sent to chemists concerned.

Pharmacists in Car Chase.—Returning to Manchester by coach with a party of pharmacists who had been visiting the Pharmaceutical Society's convalescent home, Birdsgrove House, on June 13 (see *C. & D.*, June 19, p. 783), Mr. F. Latham recognised a passing car as his own which he had parked in Manchester earlier in the day. The coach driver gave chase and was able to force the driver of the stolen car to stop. The car was recovered and two youths were charged at Manchester City police court the following day.

Yorkshire Public Pharmacists.—At a meeting of the Yorkshire Branch of the Guild of Public Pharmacists on June 12, Miss L. N. Firth, who presided, asked members to bring the activities of the Guild to the notice of all hospital pharmacists. Reports were presented on Guild branch delegates' and annual meetings, held recently in London. Congratulations were expressed to Miss E. M. Abbott (a former chairman of the branch) on her approaching marriage. After tea, a lecture on recent advances in therapeutics was given by Mr. D. G. Ardley (May & Baker, Ltd.).

Birmingham Officers. — The following officers were appointed at the annual meetings of the Birmingham Branches of the Pharmaceutical Society and the National Pharmaceutical Union and of the Birmingham Pharmaceutical Association on May 24: Society: *Chairman,* Mr. G. Goulding; *Vice-chairman,* Miss G. M. Byron; N.P.U.: *Chairman,* Mr. G. Goulding; *Vice-chairman,* Mr. W. Martin; Association: *President,* Mr. G. Goulding; *Vice-presidents,* Miss G. M. Byron and Mr. G. H. Walker. Mr. D. J. Rushton, 1088 Stratford Road, Birmingham, 28, continues as *Secretary* of the three organisations.

IRISH NEWS

Eire Livestock Medicines Control.—The Eire Minister for Agriculture has decided to introduce legislation to control the import and manufacture of proprietary medicines for the treatment of livestock diseases.

Irish Drug Association.—Mr. John J. Roche (president) was in the chair at a meeting of the Irish Drug Association Committee held on May 31, at which it was pointed out that members who require sugar for manufacturing purposes at a rate above the equivalent of their purchases during the standard year should apply in writing to the Department of Industry and Commerce, Griffith Barracks, Dublin, stating the purpose for which the additional sugar is required, the monthly quantity involved, and the name and address of the proposed supplier. Applications for sugar allowances from newly-opened pharmacies should be made on a form obtainable from the Department. Under a new salary agreement (see *C. & D.*, June 19, p. 807), arrears are due for the five weeks preceding the pay day in the week ended June 5. Inquiries about the interpretation of the agreement should be sent to the secretary of the Association. The following new members were elected: Mrs. Kathleen McGonagle, Ph.C., The Pharmacy, Ballybofey, co. Donegal; and Miss Clare Rooney, Ph.C., The Templeogue Pharmacy, Templeogue, co. Dublin.

Eire Society's Council.—At a meeting of the Council of the Pharmaceutical Society of Ireland on June 8 (see *C. & D.*, June 19, p. 806), an application by Dr. Anthony Cassidy, L.A.H., for registration as a pharmaceutical chemist was granted. The following changes of address were notified:—Mr. Michael F. Kennedy, M.P.S.I., to Main Street, Borrisoleigh, co. Tipperary; Mr. John J. Power, M.P.S.I., to 17 Moore Street, Dublin; Miss Niamh Kennedy, L.P.S.I., to the Medical Hall, Castle Street, Roscommon; Mr. Patrick Joseph Killacky, L.P.S.I., to the Dispensary, 79 Clanbrasl Street, Dublin; Mrs. Mary A. Killacky (née Kiernan), L.P.S.I., to the Dispensary, Bray, co. Wicklow. The licence certificates of the following were signed and sealed: Mary Foley, James J. Gannon, Norah C. Lyons, John D. O'Byrne, Ellen M. Owens and Ellen Ryan. The following were elected members of the Society: Miss Joan Walsh, and Messrs. Richard S. Kilgarriff, John P. McCaul, Jeremiah M. McMorrow, Gerald O'Connor and Michael Tyrrell. Messrs. Henry V. Golden and William O'Dwyer were elected associate druggists. Nominations for membership were passed for the following: Miss Norah C. Lyons, Dublin; Mr. Patrick M. Ryder, Headford, co. Galway; Mr. Francis A. Hanley, Limerick; and Mr. Eugene J. Browne, Dublin.

OVERSEAS NEWS

Canadian Health Plans. — The Canadian Prime Minister announced recently that the Dominion Government was to make annual grants to the Provinces for developing general health services, tuberculosis and venereal disease control, etc. $13 million would also be made available for building new hospitals throughout the country.

Dutch Pharmacy Students' Conference.—At the ninth lustrum [five-yearly conference] of the Dutch Pharmaceutical Students' Association, held at Amsterdam University in May, a paper discussing the progress of pharmaceutical education in Great Britain was read by Mr. Sidney J. Relph, Ph.C. (secretary, British Pharmaceutical Students' Association). Mr. Relph also described the aims and achievements of his organisation.

International Trade Agreements.—Trade agreements involving pharmaceutical products have recently been completed between the following countries: Holland and Finland (Holland to supply biological and pharmaceutical preparations, glucose, linseed oil, etc.); Poland and Iceland (Iceland to supply cod-liver oil, etc.); Jugo-Slavia and the Soviet Zone of Germany (Jugo-Slavia to supply olive oil, etc.); Russia and Holland (phosphates and other chemical products to be exchanged).

World Health Discussions. — The first World Health Assembly opened in Geneva on June 24. The Assembly is considering plans for a world-scale fight against tuberculosis, malaria and venereal diseases, amongst other problems. Among measures to be recommended against malaria are promotion of the production of insecticides and therapeutic agents, improved collection and distribution of technical information, development of international regulations, co-operation with other organisations in the field, and participation in relevant conferences. A plan for the campaign against venereal diseases recommends improved methods of control between nations.

NATIONAL HEALTH SERVICE NEWS

Government Hearing Aid. — The first batch of the Ministry of Health's Medresco hearing aids is shortly to be delivered to the Ministry for free distribution under the National Health Service. Regional Hospital Boards are to establish, at convenient centres in each area, otological clinics from which the aids will be distributed.

Working Party's Report. — The report of the Working Party set up by the Minister of Health in September 1947 to investigate differences in dispensing practice in England and Wales and Scotland has now been issued as a printed booklet (H.M. Stationery Office, 1s.). [A summary of the report, prepared from an advance typescript copy, was published in the *C. & D.*, April 17, pp. 503-07, and April 24, pp. 536-40].

Dentists and N.H.S.—The Incorporated Dental Society and the Public Dental Service Assoication, together representing 6,000 dentists, have advised their members that they are free to take part in the National Health Service. The British Dental Association, representing 8,000 dentists, has advised its members not to take part. There are, in Great Britain, 12-13,000 practising dentists, some of whom belong to more than one dental organisation.

Invitation to Contract.—The Ministry of Health announces that invitations to apply for inclusion in pharmaceutical lists for the supply of drugs under the National Health Service are now being sent to chemists in England and Wales by local Executive Committees. The invitations are accompanied by a statement of the agreed terms of remuneration (see *C. & D.*, June 19, p. 799, and Supplement) as well as by a copy of the official application form for chemists (E.C.26). Notices inviting chemists to apply for inclusion are also to be published in the local Press.

Deputation to Minister. — Members of the Central N.H.I. Committee visited the Minister of Health on June 22 to convey to the Minister (Mr. Aneurin Bevan), on behalf of the 14,000 chemists who are expected to take part in the National Health Service, the decision of the June 17 conference. They assured the Minister of the determination of their members to provide a pharmaceutical service beneficial to the community, to maintain the high standards of the profession of pharmacy, and to keep pace with modern developments. The Minister expressed his high approval of the successful conclusion of the recent negotiations. He realised that the new Health Service would place a heavy burden upon chemists, and offered to assist, so far as he was able, in securing any necessary extension to their dispensaries.

Recent N.H.S. Publications. — The Ministry of Health has published draft regulations (1) to correct certain anomalies in and amend the National Health Service (Superannuation) Regulations, 1947, and (2) to provide for the transfer to Regional Hospital Boards of officers at present employed by authorities whose functions are to be transferred. "Provisions Relating to the Mental Health Services," also published recently (H.M. Stationery Office, price ninepence), summarises the mental-care provisions of the National Health Services Act. Also published recently were S.I., 1948, No. 1237, which provides for the transfer of property and liabilities of Insurance Committees to Executive Councils, and of the Dental Benefit Council and the Ophthalmic Benefit Approved Committee to the Minister of Health, and S.I., 1948, No. 1239, which lays down the financial procedure to be followed by Executive Councils and Dental Estimates Boards.

Joint Pricing Committee. — It is announced that the Joint Pricing Committee for England, which held its first meeting on June 16, consists of twelve members appointed by Executive Councils and five appointed by the Minister of Health (four to represent the pharmaceutical services, one the medical practitioners). Of the Executive Council members, the following are pharmacists: Messrs. G. F. Deeth, Chingford (East Anglian group), W. Deacon, Bridgwater (South-western), and J. E. French, Sittingbourne (South - eastern). The pharmaceutical representatives appointed by the Minister are Messrs. D. E. Sparshott (Boots, Ltd.), T. Heseltine, Normanton, G. H. M. Graham, Newcastle-on-Tyne, and P. Dobson (pharmacy department, Leeds Industrial Co-operative Society, Ltd.). The following officers have been appointed: *Chairman,* Mr. W. Gill Hodgson, Liverpool; *Vice-chairman,* Mr. T. Allsop, Chesterfield; *Secretary* (*pro tem.*), Mr. J. A. Speed, 42 West Cliff, Preston, Lancs.

TOPICAL REFLECTIONS

Flat and Unprofitable

The first impression I received from reading the outcome of the joint conference of National Pharmaceutical Union and Pharmaceutical Committee representatives held on June 17 (*C. & D.* Coloured Supplement, June 19, p. xlii) was one of anticlimax. As you justly remarked on p. 797, there will be "no great enthusiasm" for the terms accepted. Too much is left to the uncertain operation of flat rates and of averages. Chemists in business who have a good turnover in the dispensing department will probably find their layout in this department adequate for the new situation. Others, however, will have to provide for an outlay on an estimated increase in dispensary equipment; and the estimate selected may be wide of the mark. It is not surprising that Scottish pharmacists, taking into consideration the well-known differences between their position and that of their English counterparts, refused the offer made to them. The only businesses in England likely to show a profit on the working of National Health Service dispensing are those already turning out a large and steady volume of N.H.I. dispensing, the work of each pharmacy as a whole being co-ordinated accordingly. Milton once wrote: "New presbyter is but old priest writ large": the principle applies to the present N.H.S. arrangement.

Municipal Dispensaries?

A serious threat to the regular working of the National Health Service is disclosed in the letter from Mr. W. J. H. Evans on p. 805. The competition of municipal authorities through their clinics has long been a grievance of chemists in business. It now appears that in at least one locality a proposal has been made "to take over several local medical aid dispensaries, staff them with qualified pharmacists and carry out dispensing under the National Health Service Act." A proposal of this kind should be resisted, and for that purpose all the resources of organised pharmacy should be mobilised. The question is not primarily one of dividing with panel chemists the profit to be obtained from N.H.S. dispensing; for this profit, as is indicated in my first paragraph, is at present an uncertain quantity. There is first of all a question of the absurdity of using ratepayers' money for an adventure in professional work, the promoters' knowledge of which is little or none. My suggestion is that local propaganda should be set in motion wherever a proposal of this kind arises. Your readers will notice that it is the intention to staff these municipal dispensaries with pharmacists. I do not envy the state of mind of qualified people who allow themselves to be persuaded—if any do—to enter a municipal service of the kind which has been proposed.

Oil of Spikenard

One of the specimens in the Oxford Museum of the History of Science is a small glass decanter containing an oil reputed to be oil of spikenard. This oil was prepared, probably by distillation, by Charles Hatchett, F.R.S., who in 1836 issued a short treatise with the title "On the Spikenard of the Ancients." A list of Hatchett's monographs to 1829 in Thomas Faulkner's History of Chelsea (I.90-92) shows that till then most of his research was devoted to inorganic chemistry. As he called the plant used *Nardus indica*, which is a synonym for *Microchloa setacea*, it is uncertain whether his pharmacognosy was as good as his chemistry. From what is know of Hatchett it appears that he pursued scientific studies as a hobby. The true spikenard, *Nardostachys Jatamansi* DC, was carefully described by the late Mr. E. M. Holmes in the ninth edition of the Encyclopædia Britannica. He stated that some of the root of the plant had been found recently in "one of the oldest chemists' shops in London." Its odour was described as intermediate between valerian and patchouli, but more agreeable than either. It formed a basis for hair washes and pomades, and was said to be stimulating. Hatchett gave the names of Hippocrates, Celsus and Galen as authorities for the internal and external use of the oil. Lindley stated in 1930 that in India, where the plant grows, it was prescribed in hysteria and epilepsy. A quotation dated 1545 in the O.E.D. mentions its external application. Spikenard is mentioned three times in the Song of Songs and twice in the New Testament. A box of spikenard ointment "very precious" and "very costly" was used to pour on Christ's head (Mark xiv, 3), and to anoint Christ's feet (John xii, 3). On both occasions the value of the box or vase was at least 300 pence (over £10).

Xrayser

COMPANY NEWS

Rollip, Ltd. (P.C.).—Capital £1,200. To carry on the business of manufacturers of, and dealers in, cosmetics, etc. The first directors are to be appointed. R.O.: 9 Lower Belgrave Street, London, S.W.1.

Forryans, Ltd. (P.C.).—Capital £2,000. To carry on the business of manufacturers of, and dealers in, chemicals, drugs, medicines, etc. Cecil A. Forryan and Leslie W. Forryan, directors. R.O.: 75 Hinckley Road, Leicester.

Nott & Co., Ltd. (P.C.).—Registered in Dublin.—Capital £10,000. To carry on the business of chemists, druggists, etc. Mrs. Phyllis Cotton, Mount Alverno, Dalkey, co. Dublin, Nicholas Pal, Flat 16, Grosvenor House, London, directors.

Helena Products, Ltd. (P.C.).—Capital £5,000. To carry on the business of manufacturers of, and dealers in, toilet requisites, etc. James J. Murphy and Ellen M. Murphy, directors. R.O.: Helena Building, High Road, New Southgate, London, N.11.

Prophylaxis, Ltd.—Registered in Edinburgh.—Capital £250. To carry on the business of specialists in animal diseases and manufacturers of medicines, drugs, etc. The first directors are to be appointed. R.O.: 144 St. Vincent Street, Glasgow, C.2.

J. Hitchen & Sons, Ltd. (P.C.).—Capital £7,500. To acquire the business of wholesale merchants now carried on at 24 King Cross Street, Halifax, as "J. Hitchen & Sons" and to carry on the business of chemists, etc. Harold Stringer and Fred Roberts, directors.

Cynon Chemists, Ltd. (P.C.).—Capital £3,000. To carry on the business of manufacturers of, and dealers in chemicals and drugs, chemists and druggists, etc. David L. E. Evans, M.P.S., and Arthur B. Andrews, directors. R.O.: 9-10 Victoria Square, Aberdare.

J. Lindley & Co., Ltd. (P.C.).—Capital £6,000. To carry on the business of chemists, druggists, opticians, etc. Mrs. Elizabeth C. M. Hooke, Shortlands, Biddenham Turn, Bedford, and John Lindley, M.P.S., 54A Bedford Road, Kempston, Beds, directors.

J. K. Harvey (Chemists), Ltd. (P.C.).—Capital £2,500. To acquire the business of chemists and druggists carried on by John K. Harvey at 1 St. Mark's Road, Mitcham, Surrey. John K. Harvey, M.P.S., John K. Harvey, junior, R. Harvey and Jack K. Coomber, directors.

R. U. Matthers & Co., Ltd. (P.C.).—Registered in Belfast.—Capital £1,000. To carry on the business of chemists, druggists and opticians, etc. Robert U. Matthers, M.P.S.N.I., 38 Church Street, Ballymena, Thomas E. Woods, 199 Antrim Road, Belfast, directors.

J. B. Frank & Co., Ltd. (P.C.).—Capital £3,000. To acquire the business of a wholesale and retail chemist and druggist carried on by Wm. R. M. Thomas at 111 Brixton Hill, S.W.2, as "J. B. Frank & Co." Wm. R. M. Thomas and Irene M. Thomas, directors.

Marylebone Optical Co., Ltd. (P.C.).—Capital £2,000. To carry on the business of manufacturers of, and dealers in, optical, surgical, medical and scientific instruments and appliances, etc. Ronald C. Brown, Chloe C. G. Brown, Edwin W. Morse and Edwin A. Morse, directors. R.O.: 67-68 Jermyn Street, London, S.W.1.

United Chemists' Association, Ltd.—The recent re-issue of 5 per cent. cumulative shares was immediately over-subscribed. Allotments of shares are being taken in the rotation in which the applications were received.

Boots Pure Drug Co., Ltd.—The directors' report and statement of accounts for the financial year ended March 31 show a net profit of £679,428, compared with £756,470 in the previous twelve months. Interim dividends totalling 20 per cent. have been paid on the ordinary shares and a final dividend of 20 per cent. (less tax) is recommended, payable September 30, making a total dividend for the year of 40 per cent. Balance carried forward, £215,846. The retiring directors, Colonel F. P. Braithwaite and Mr. John Boyd, M.P.S., are offering themselves for re-election.

The British Drug Houses, Ltd.—The directors' report and statement of accounts for the year ended December 31, 1947, show that the consolidated profits after providing for taxation, repairs, amortisation, depreciation and directors' fees, were £90,362, as against £91,637 last year. Of these consolidated profits £16,649 has been left undistributed in the possession of subsidiary companies. The distributable profit brought forward by the parent company is £73,713. Including £4,950 carried forward, there is available for distribution £78,663. Of this sum there has been distributed by way of dividend (less tax), on the 5 per cent. cumulative preference shares, £14,438, and appropriated to general reserve, £30,000. A dividend of 6 per cent. is recommended on the ordinary shares (less tax), £19,800, leaving a balance to be carried forward of £14,425. The retiring director, Commander Sir Hugh T. Dawson, offers himself for re-election.

Sangers, Ltd.—The directors' report and statement of accounts for the financial year ended February 29 show a net profit of £368,118, to which is added the balance brought forward, £280,821. A final dividend on ordinary stock of 20 per cent. (less tax) was paid on August 1, 1947, £66,302, with capital bonus, £7,233, leaving a balance of £574,404, out of which the following allocations have been made: Income tax, £138,653; profits tax, £60,000; dividends paid (less tax), 5½ per cent. preference stock, £10,890, 7½ per cent. preference stock, £10,312, and interim dividend of 10 per cent. on ordinary stock, £33,151 (all for year ended January 31 1948); transferred to contingencies reserve £2,732, leaving a balance available of £319,665 which the directors recommend should be allocated as follows: Final dividend of 20 per cent (less tax) on ordinary stock (making a total of 30 per cent. for the year ended February 29, 1948) £66,302, leaving a balance carried forward of £253,362. The retiring director, Mr. Fredk. R. Moore, offers himself for re-election.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

PROGRESS in methods of extraction of palm oil in West Africa was reviewed before the House of Commons on June 16 by MR. CREECH JONES (Colonial Secretary). Introduction of hand presses and pioneer oil mills had contributed, he said, to rising production and to improvement in quality. In 1944, when grading was introduced, 51 per cent. of Nigerian palm oil bought for export was Grade 1; by 1947 the figure had risen to 63 per cent. Grade 1 oil at present earned the producer a premium of £2 5s. a ton. There were over a thousand hand presses in use in Nigeria at the end of 1946, and their number was being steadily increased. Four Government pioneer oil mills were working in the territory, another was to open this month, four more were under construction, and machinery for an additional fifteen was beginning to arrive.

Malted and National Dried Milks

Was the Minister of Food aware, asked MR. BAKER WHITE on June 16, of an acute shortage of Horlick's malted milk powder, and would he arrange to divert to retailers, for the benefit of young children, some of the large supplies now being sent to works canteens? MR. JOHN STRACHEY said his department did not control the distribution of this food, "but I should be prepared to discuss with the manufacturer any rearrangements that might seem desirable, if Mr. White will send details."

What, asked BRIGADIER RAYNER on June 16, were the annual sales of National dried milk; what subsidy was necessitated on yearly sales, and what were the cost and selling price per tin? Was the expense of maintaining stocks in and selling from food offices included in the cost? MR. JOHN STRACHEY replied that the annual value of the sales of National dried milk for the year to March 31, 1948, was £1,423,000, involving a subsidy of about £4,088,000. The cost for each 20-oz. tin was about 3s. 4d., including the expenses of maintaining stocks in and distribution from food offices. The usual selling price of the 20-oz. tin was 10½d., but supplies were provided free in approved instances.

Surgical Belts

A further attempt to secure a coupon concession on surgical belts and corsets was made by MR. R. W. SORENSEN on June 17. Did the President of the Board of Trade realise, he asked, the hardship caused because women who had to have special post-confinement belts or abdominal corsets were compelled to give up coupons for the purpose? MR. WILSON replied that surgical belts and corsets of not more than 6 in. width, specially designed for a number of specified conditions, could be bought without coupons. Coupons were required for other types because they could not be clearly distinguished from garments made for ordinary wear. "I am, however, always prepared to consider sympathetically applications for extra coupons to meet abnormal expenditure on these garments."

BUSINESS CHANGES

SPENCER & CO., manufacturing chemists, have transferred their offices and works to 66 Whitehall Park Road, Chiswick, London, W.4.

R. J. REUTER CO., LTD., Slough, announce that their representative, Mr. R. W. Wilson, has retired on medical advice after twenty-eight years with the company.

FREDERICK ELIAS & CO., 65 Rue Falaki, Cairo, Egypt, are transferring their London office, on June 28, to Leysian Building, 112 City Road, London, E.C.1 (Telephone: Clerkenwell 4155).

CARNEGIE BROS., LTD., 227 Essex Road, London, N.1, have appointed Mr. H. H. Wood, Rycroft, Hollies Road, Wilpshire, Blackburn (Telephone: Wilpshire 48010) their representative for Lancashire, Yorkshire, Westmorland and Cumberland.

WILLIAM TOOGOOD, LTD., bottle specialists and druggists' sundriesmen, have transferred their offices and showroom to 145 Borough High Street, London, S.E.1. The company's telephone number (Hop 3983) is unchanged.

MONSANTO CHEMICALS, LTD., Victoria Station House, London, S.W.1, have made the following appointments: Works manager at Newport, Mon, Mr. Sydney Smith; production manager at Ruabon, Dr. W. A. Hayward; divisional manager of heavy chemical division, Dr. N. B. Dyson; group supervisor of phenol group, Dr. E. W. Bodycote.

PARKE, DAVIS & CO. have transferred their offices to Staines Road, Hounslow. Urgent supplies in the London area may be obtained from Brooks & Warburton, Ltd., 232 Vauxhall Bridge Road, London, S.W.1, or (outside normal business hours) from John Bell & Croyden, 50 Wigmore Street, London, W.1.

S. MAW, SON & SONS, LTD., Aldersgate House, Barnet, Herts, have appointed the following representatives: North-west London suburban territory, Mr. Frederick C. Adam, 90 Bulwer Road, New Barnet, Herts (in place of Miss Hilda M. Weeks, who has retired); central London chemists' territory, Mr. Ernest H. Still (in place of the late Mr. A. H. Millner).

DEATHS

ANDERSON.—On June 15, Miss Kathleen May Anderson, M.P.S., Sunny Bank, Seascale, Cumberland. Miss Anderson qualified in 1929.

BARR.—At a hospital at Castle-Douglas, Kircudbrights, on May 3, Mrs. Jane Lockhart Henderson Barr, wife of Mr. John Barr, M.P.S., 187 King Street, Castle-Douglas.

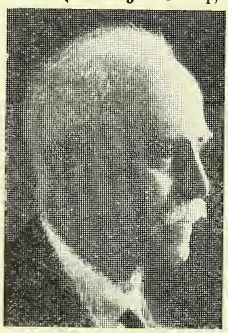
BISSET.—At 41 High Street, Lochmaben, on May 22, Mrs. Marion Russell Bisset, wife of Mr. Rowland P. Bisset, M.P.S.

FISHER.—On May 31, Mr. George Francis Lewis Fisher, M.P.S., 18 Fore Street, Topsham, Devon, aged seventy-five.

GOODSWEN.—On June 3, Mr. John Salem Tennyson Goodswen, M.P.S., 34 Windsor Road, Redcar, Yorks, aged fifty-five.

HART. — On May 14, Mr. Edward Joseph Hart, M.P.S., 170 Downend Road, Horfield, Bristol, 7, aged sixty-five. Mr. Hart qualified in 1905.

HENSHAW. — At Ashton-under-Lyne, Lancs, on June 14, Mr. Charles James Henshaw, aged seventy-eight. Mr. Henshaw qualified as a chemist and druggist in 1892. After a short period in business at Skelmersdale, he entered the service of Thomas Kerfoot & Co., Ltd., Bardsley Vale, in 1898, and remained with the company until his retirement in 1939.



HUNTER.—At 11 Viewland Terrace, Perth, on June 7, Mr. Alexander Sime Hunter, M.P.S., formerly of Wainfleet, Lincs. Mr. Hunter qualified in 1904.

MACNAUGHTON.—At Bridgend, Aberfeldy, Perths, on May 7, Mrs. Isabella Reid Macnaughton, widow of the late Mr. H. B. Macnaughton, M.P.S., Aberfeldy, aged ninety-one.

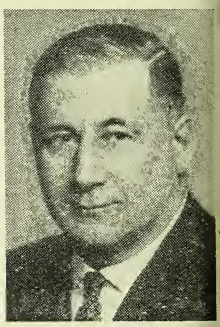
MARKS.—At a Dublin hospital on June 9, Mrs. Emily Josephine Marks, widow of the late Mr. John Marks, L.P.S.I.

PARKIN.—On June 3, Mr. Frederick Avery Parkin, Ph.C., Crofters Cottage, Vane Hill Road, Torquay, Devon, aged sixty-five. Mr. Parkin qualified as a chemist and druggist in 1905 and passed the Pharmaceutical Chemist examination in 1906.

REEVE.—On May 20, Mr. Walter Reeve, 24 Mill Hill Road, Norwich, aged eighty. Mr. Reeve qualified as a chemist and druggist in 1889.

SAYERS.—On June 8, Mr. William Charles Sayers, Ph.C., 40 Clarendon Rise, Lewisham, S.E.13, aged eighty.

SHAW.—At the funeral of Mr. F. C. Oscar Shaw (see *C. & D.*, June 19, p. 788), which took place at Streatham Park, London, Crematorium on June 16, The British Drug Houses, Ltd., were represented by Dr. F. H. Carr, Mr. R. R. Bennett, Dr. Frank Hartley and Mr. C. M. Hill, with several members of the senior staff. Mr. S. Whiffen represented the Pharmaceutical Export Group, and many of Mr. Shaw's former business associates, including Messrs. R. Cuzner and A. W. Edwards, were also present. Prior to Mr. Shaw's illness, which extended over nine months, he had been managing director of the B. D. H. from October 1943 to December 1947, and a member of the board from 1919, when his father's business (Geo. Curling Wyman & Co.) amalgamated with the company. As he had joined his father's firm in 1907, he had thus been over forty years in the drug trade. Mr. Shaw served as chairman and a member of council of the Pharmaceutical Export Group. He served also on the councils of the Wholesale Drug Trade Association and Association of British Chemical Manufacturers, as director and chairman of the Anglo-Iranian Pharmaceutical Co., Ltd., the British European Pharmaceutical Co., Ltd., and as a director of the Therapeutic Research Corporation of Great Britain, Ltd.



STADDON. — Suddenly, on June 8, Mr. F. W. Staddon, a representative in London of Robert Gibson & Sons, Ltd., Carlton Works, Erskine Street, Hulme. Mr. Staddon had just completed forty-eight years' service with the company.

PERSONALITIES

Mr. William Low, M.P.S., Blackhill, co. Durham, has been appointed as a member of the Durham County Council's Health Committee.

Mr. A. T. Opie, J.P., M.P.S., who has been re-elected chairman of the Cornwall Branch of the National Pharmaceutical Union, after holding that office for several years, is managing director of A. Opie & Co., Ltd., pharmacists, of Penzance, Redruth, and Newlyn. Mr. Opie was apprenticed in Redruth to the late Mr. W. Bray, and qualified in London in 1903. He is an ex-chairman of the Cornwall Branch of the Pharmaceutical Society, and a member of the Cornwall Executive Council established under the National Health Service Act. He was recently appointed to a tribunal under the National Insurance Act for the Redruth Area of Cornwall. Civic offices which he holds include those of alderman of the Cornwall County Council, and senior magistrate of the borough of Penzance.

Mr. R. H. Rowson, Ph.C. (chairman of the Middlesex Pharmaceutical Committee) has been appointed to the management committee, Hendon Group of Hospitals.

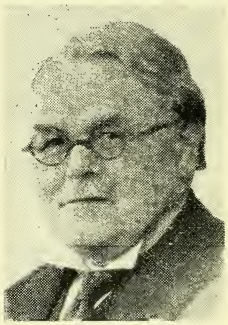
Lieutenant J. W. E. Jones, Royal Navy, son of Mr. W. J. Jones, M.P.S., 10 Mardol Head, Shrewsbury, was successful in obtaining a degree (Mechanical Science Tripos) in recent examinations at Cambridge University.

Mr. D. Shearer, M.P.S., who has resigned his post as chemist-superintendent to the Dalziel Co-operative Society, Motherwell, to take up an appointment in Edinburgh, was presented with a gold wristlet-watch by senior officials of the Society at a ceremony held in his honour at Motherwell recently. Mr. Shearer has served with the Society for sixteen years.

Mr. Colin Jackson, M.P.S., 10 Railway Street, Farnworth, Lancs, a former warrant officer in the R.A.M.C., has been awarded the British Empire Medal (Military Division). The award was gazetted in June 1946 for "meritorious service and devotion to duty" in the Burma campaign, when he was attached to the West African Field Ambulance. He is now employed by Boots, Ltd.

Messrs. A. L. Birchley, M.P.S., and C. C. Debell, M.P.S. (Glaxo Laboratories, Ltd., Greenford), left England recently to represent the company overseas—Mr. Birchley to take charge of the company's growing interests in South Africa and Mr. Debell to take up a position with one of the company's subsidiary organisations in New Zealand. Mr. Birchley was until recently area sales executive for the north of England; he joined the company in 1934, and during the war served in the medical branch of the Royal Air Force. Mr. Debell was formerly connected with the company's development division.

Mr. H. Humphreys Jones, Ph.C., F.R.I.C., who, naturally enough, figures prominently in an article in this issue on the Liverpool School of Pharmacy (p. 827), has numerous interests outside his profession. He has been president of the Liverpool Welsh Choral Union since 1933 and of the Liverpool Welsh National Society since 1946. He is a life governor of the British and Foreign Bible Society, was president of the Presbyterian Church of Wales in 1946, the honorary treasurer of its Reconstruction Commission, 1942-47, and present treasurer of its historical society. A justice of the peace for the City of Liverpool, he is also the current chairman of the North-western Section, Royal Institute of Chemistry. The statement by an admirer that Mr. Humphreys Jones is "devoted to public and social service with an almost apostolic diligence and zeal, and a prince of good fellows who delights in offices of friendship and deeds of kindness" is, indeed, clearly no exaggeration.



TRADE NOTES

Labelled to be Tax-free.—Thornton & Ross, Ltd., Linthwaite, Huddersfield, state that all official preparations they supply are available with labels so that purchase tax is not chargeable.

Present Address. — R. Demuth, Ltd., point out that their address is Farnham, Surrey. The London address given in a recent Trade Note is now a joint distributing centre for themselves and Thos. Christy & Co., Ltd.

Counter Booklets.—Chemists requiring supplies of a counter booklet, "Johnson's Complete Treatise on Rheumatism," are invited to write direct to Johnson Agencies (Proprietaries), Ltd., North Street, Horsham, Sussex.

French Spa Water.—Ingram & Royle, Ltd., 12 Thayer Street, London, W.1, sole agents in the United Kingdom for Vichy-Célestins spa water, announce that imports of Vichy water are again being made from France and that good supplies are available.

Iodine for the Pocket.—The well-established black-and-white plastic container of Hax iodine issued by Edward Hack, Ltd., Lion House, Red Lion Street, London, W.C.1, is now available mounted on a miniature display card (size 1¾ x 2¾ in.), echoing the black and white design and discarded at the moment of sale.

Samples on Request.—Teesdale Works, Ltd., 14 Whitecross Place, Wilson Street, London, E.C.2, issue a reminder that large supplies are now available of their drinking tubes, which are being distributed through trade wholesalers. Samples and prices will be sent by the manufacturers on request.

Non-metallic Atomiser.—Constructed entirely of non-metallic substances, the Rybar inhaler, issued by the Rybar Laboratories, Ltd., Tankerton, Kent, may be used with a wide variety of medicaments. The apparatus is claimed to be practically unbreakable, although each part is readily replaced if necessary.

Pencillin Injections. — A. Greaves & Son (A. Livesley, M.P.S.), 35 Market Place, Chesterfield, have been granted a licence under the Therapeutic Substances Act for the preparation of aqueous solutions of penicillin for intramuscular injection. They are prepared to supply, on the usual trade terms, other pharmacists within a radius of twenty-five miles.

Product Renamed. — Genatosan, Ltd., Loughborough, Leics, notify chemists that the change in the name of the dispensing sizes of Calsprate tablets recently announced (see *C. & D.*, June 12, p. 758) in order to gain exemption from purchase tax has been disallowed by the Customs and Excise authorities. They have therefore decided to rename the bulk sizes "calcium acetylsalicylate."

Concentrated Perfumes. — Mallagh & Co., 163 High Road, Woodford Green, Essex, state that they are in a position to supply concentrated perfumes from stock. Under an arrangement they formerly had with Th. Muhlethaler, S.A., Nyon, Switzerland, whom they first represented in this country in 1926, overseas markets were left to the Swiss concern. Messrs. Mallagh are now free to operate all over the world and have appointed agents in most countries.

Bonus Offers. — Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1, give particulars on another page of a bonus offer of Anti-bi-san in operation from July 1. — Dr. Janssen, Ltd., 52 Baker Street, London, W.1, give details on another page of bonus parcels of Janssen's herbal tablets.—Included in a bonus scheme operated by Sir John Pratt & Co., 89 Forset Court, Edgware Road, London, W.2, are eau de Colognes and lavender waters, hair cream, bay rum and brilliantine, Cologne lotions and wave sets, and perfumed bath crystals; details will be found elsewhere in this issue.

Price Changes. — Delavelle (G.B.), Ltd., 38 Orsman Road, London, N.1, give details on another page of reduced prices of their Blue Orchid and other products. —Henderson Bros. & Co., Ltd., Burwell Road, London, E.10, announce reduced prices for their Hygex rubber-cushioned hair-brushes.—Pegasus (Textiles), Ltd., 18 Golden Square, London, W.1, give details on another page of the new reduced price of their V.I.P. supporter for men. — Personna Products, Ltd., 79 Davies Street, London, W.1, announce a reduction in the price of Personna razor blades to half the former figure.

New Veterinary Vaccines.—Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, announce the addition of two new vaccines to their veterinary list. Wellcome brand contagious pustular dermatitis

(orf) vaccine is intended for prophylactic use against "orf" or "outburst," a highly infectious skin disease of sheep; is issued in bottles of 10 c.c. (fifty sheep doses), with scarifier. (Owing to the short life of the vaccine, chemists are asked to order supplies only to meet actual requests). Wellcome brand black-disease vaccine has been developed at the Wellcome Physiological Research Laboratories to protect sheep against black disease, a rapidly fatal infection only recently recognised in this country; is issued in containers of 100 c.c. (twenty sheep doses).

Mineral-free Laxative.—Hirst, Brooke & Hirst, Ltd., Sheepscar Works, Leeds, have introduced a new specialty, Oralax vegetable laxative tablets, prepared from extracts obtained by a special process of vacuum extraction from cascara barks (*Purshiana* and *Frangula*), senna pods and leptandra. The process is designed to obtain the total laxative principles and remove the undesirable griping properties. The product is packed in display outers and show material is available with all orders. Supplies are restricted to pharmacists.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*C. E. Fulford, Ltd.*, Bile Beans, 4s. 9d. doz., tax 33⅓ per cent., inclusive retail price 8d.; 11s. doz., tax 33⅓ per cent., i.r.p. 1s. 6d.; 26s. 6d. doz., tax 33⅓ per cent., i.r.p. 3s. 7d.; 49s. doz., tax 33⅓ per cent., i.r.p. 6s. 3d. Zam-Buk medicinal cream, 18s. doz., tax 33⅓ per cent., i.r.p. 2s. 6d.; Zam-Buk ointment, 12s. doz., tax 33⅓ per cent., i.r.p. 1s. 7d.; 29s doz., tax 33⅓ per cent., i.r.p. 3s. 10d.; 48s. doz., tax 33⅓ per cent., i.r.p. 6s. 5d. Zamcones suppositories, 18s. doz., tax 33⅓ per cent., i.r.p. 2s. 6d. Peps throat tablets, 12s. doz., tax 33⅓ per cent., i.r.p. 1s. 7d. Guy's tonic and Kutnow's saline already quoted in protected list: Prices:—Guy's tonic, 11s. 3d. doz., tax 33⅓ per cent., i.r.p. 1s. 7d.; 27s. doz., tax 33⅓ per cent., i.r.p. 3s. 10d. Kutnow's saline, 26s. 6d. doz., tax 33⅓ per cent., i.r.p. 3s. 7d. *Quantity Orders:* £3 assorted orders or £2 of any one product invoiced at following prices per doz.: Bile Beans, 4s. 6d., 20s. 6d., 25s., 48s. 4d.; Zam-Buk medicinal cream, Zamcones suppositories, 17s.; Zam-Buk ointment, 1s. 4d., 27s. 6d., 46s.; Peps throat tablets, 1s. 6d.; Guy's tonic, 11s., 26s. 6d.; Kutnow's saline, 26s. 2d.

Alterations to List (Part 1).—*Luma Products*, Ltd., Luma anti-rheumatic cubes, 37s. gross, tax 33⅓ per cent., i.r.p. 6d.

LEGAL REPORTS

Morphine by False Pretences.—A sentence of twelve months' imprisonment was passed at Belfast police court on June 2 on Patrick Burrows, alias Frank Sexton, Liscannor, co. Clare, described as "a former pharmaceutical chemist," on twenty-one charges of procuring or attempting to procure morphine tablets by false pretences. He was stated to have had a long list of convictions in Great Britain and Eire. The evidence was that, on arrival in Belfast from Dublin, Burrows went to the Mater hospital for treatment. While there he took some of the hospital notepaper, on which he wrote a morphine prescription and signed a doctor's name. He presented the prescription at a pharmacy and obtained twenty ¼-gr. tablets of morphine by means of it.

Alleged Misdescription.—At Bangor, on June 8, Frank Evans, trading as Morris Evans & Co., the Manufactory, Festiniog, was summoned for selling a drug alleged to be falsely labelled. The commodity, described as "Morris Evans's household oil," was labelled as containing 85.2 per cent. pine oil, but analysis showed a deficiency of 75 per cent. pine oil. The defence was that Evans bought the pine oil from another firm, by whom it was described in the invoices as "dark pine oil." He failed to have the oil analysed and failed also to realise that the formula on the label should show the contents of the bottle and not the quantities used before the oil was manufactured. Evans was found guilty of the charge. He was fined £5 and ordered to pay £9 14s. costs.

Transactions in Lipsticks.—Stockport magistrates on June 14 imposed fines totalling £850 on four persons and a company found guilty of dealing in 384 doz. imported lipsticks with intent to evade purchase tax and Customs duty. Arthur Harding, Montague Road, Stockport, managing director of Med-services, Ltd., Manchester and Stockport, was fined a total of £300. Mrs. Mary Ellen Clarke, Belfield Road, Rochdale, who bought the lipsticks in the first place from an Indian in Bolton market, was fined a total of £200, and her husband, James Clarke, a total of £150. John Barrow, Trafalgar Street, Rochdale, was fined a total of £100, and Med-services, Ltd., a total of £100. The hearing was on June 9, but the magistrates adjourned until June 14 to consider their decision.

ESTABLISHING A PHARMACEUTICAL SERVICE

Instructions to Executive Councils

In a circular issued to Clerks to Executive Councils, the Ministry of Health outlines the arrangements to be made to inaugurate pharmaceutical services under the National Health Service Act. The circular announces that special handbooks are being prepared for the persons providing pharmaceutical services; they will be sent to the Executive Councils when ready for distribution. Local Pharmaceutical Committees are to be approached to ensure that a complete list is available of firms and persons eligible to take part. Forms of application for inclusion in the Pharmaceutical List are to be printed on the lines of models supplied. After consultation with the local Pharmaceutical Committee, an Executive Council is responsible then for preparing a scheme for testing the quality and amount of the drugs and appliances supplied; and a scheme for securing that one or more places of business on the Pharmaceutical List in each district are open at all reasonable times. The circular makes it clear that a rota service providing for additional hours of business on early closing days or in the evenings need not cover so large a district as a rota service for Sundays and public holidays. A scheme is asked for by the end of June. A model testing scheme is to be issued.

An appendix outlines a scheme for securing that one or more places of business on the Pharmaceutical List in each district shall be open at all reasonable times. Under it, an Hours of Service Committee (chairman, three members appointed by the Council from among their members other than those appointed by the local Pharmaceutical Committee, and three members appointed by the local Pharmaceutical Committee) is set up. The chairman and a deputy-chairman are appointed by the non-pharmacist members. All places of business on the Pharmaceutical List are required to be open for the supply of drugs and appliances on weekdays (other than early closing days and public holidays) from 9 a.m. to 6 p.m. (with an optional hour's closing for lunch), and on early-closing days from 9 a.m. to 1 p.m. Where the Committee considers a rota necessary every chemist must, if required by the Committee, participate in it.

CONFERENCE PROS AND CONS

Summary (based on the secretary's report) of the proceedings at the June 17 joint conference. The principal findings were given in the advertisement supplement of last week's issue of the *C. & D.*

The Joint Conference held in London on June 17 under the auspices of the National Pharmaceutical Union was attended by over 400 delegates, of whom 220 represented Pharmaceutical Committees; a number represented both Branch and Pharmaceutical Committee. The Chairman (Mr. G. H. M. Graham, Newcastle-on-Tyne) having opened proceedings with a brief address of welcome, the first speaker from the floor of the Conference was Mr. T. B. Robinson, Middlesex, who, in an urgent appeal to delegates to look to their long-term future, moved:—

> That this Conference declares that whatever action is decided upon today, it places a much higher value on the professional services of pharmacy than is represented by an average fee of 1s. per prescription.

After Mr. J. R. Stewart, Wimbledon, had seconded, Mr. G. H. Hughes, Carnarvonshire, described it as illogical at that stage of the proceedings. Support for the motion would be incompatible with the views of delegates who had come with a mandate to oppose acceptance.

Mr. G. H. Collinge, Devonshire, moved and Mr. C. W. Hobson, Sheffield, seconded, an amendment:—

> That this Conference is in agreement with the basic principles of the Ministry's amended offer and will accept the interim period offer until a sound basis of agreement can be formed on the experience of the new Health Service.

Mr. Collinge claimed that the Ministry's offer was based on unsound economic assumptions, derived mainly from N.H.I. experience. No settlement, he argued, should be on other than an interim basis until the facts of N.H.S. had been determined and evaluated.

There followed a discussion, many delegates participating, over practically every aspect of pharmaceutical remuneration. Mr. J. P. Murphy, Liverpool was applauded when he declared that for the first

time pharmacists, particularly in the industrial north, would be provided with a fair return for their services under the State; they had suffered for many years from inadequate N.H.I. remuneration, and would not reject an offer that gave a substantial advance on current remuneration.

MR. J. H. SPENCER, North London, complained that a pledge which, he declared, had been given at the joint Conference held in April 1946 (that counsel should be retained for the negotiations) had not been honoured.

A number of delegates asked whether it was true that the Department of Health had offered pharmacists in Scotland an average dispensing fee of 1s. 3d., and that the offer had been rejected.

In reply MR. G. A. MALLINSON (N.P.U. secretary) said no undertaking in the sense alleged by Mr. Spencer had been given; the undertaking had been that skilled professional advice should be sought, and the services of a business consultant had been utilised in the Roskill inquiry (into the economics of N.H.I. and "private" dispensing), while Mr. Penman had acted and would continue to act as adviser to the Negotiating Committee. The offer to Scotland took into account the higher average dose content of mixtures, tablets, etc., prescribed in Scotland. In his opinion, the amended offer would give a return comparable with one based on the N.P.U. dispensing scale. The fees would be a further addition of 128 per cent. to the basic Drug Tariff fees (already subject to a 33⅓ per cent. addition).

"Fair Wages" Clause

MR. MALLINSON also informed the conference that the Ministry of Health was inserting in the draft National Health Services (General and Pharmaceutical Services) Regulations a "fair wages" clause. This would make it necessary for contractors to employ their staffs on terms and conditions of service not less favourable than those currently provided for in the agreement of the National Joint Industrial Council for Retail Pharmacy. The obligation would apply to all grades of employees.

MESSRS. A. H. PRESTON, Leicestershire, D. J. RUSHTON, Birmingham, and R. H. WILLIAMS (speaking for a group of S. Wales Branches) drew attention to steps taken by the Ministry of Health to induce local health authorities to take over existing central dispensaries. MR. MALLINSON stated that the matter had been the subject of representations to the Ministry, whose reply was that local health authorities in certain areas had been asked to maintain continuity of dispensing services at present provided from dispensaries conducted by medical-aid, friendly and similar societies.

The amendment moved by Mr. Collinge (see above) was put after he had replied, but was rejected. Mr. Robinson's motion was then put; that also was rejected.

MR. W. T. REES, Cheltenham, then moved his resolution recommending acceptance of the Ministry's amended offer (see Advertisement Supplement, *C. & D.*, June 12). He declared that pharmacists in Cheltenham had perhaps more to lose from the advent of the N.H.S. than pharmacists in any other place. Nevertheless, after full consideration, his Branch and Committee felt it to be right that the service should be accepted. MR. S. HINCHLIFFE, Cheshire, seconded, and Mr. D. G. COOPER, Bristol, supported, but the Conference adjourned for lunch before the vote was taken. When the Conference was resumed at 2.45 p.m., THE CHAIRMAN announced that an emergency meeting of the N.P.U. Executive had been made necessary during the interval by a telephoned appeal from the secretary of the Pharmaceutical Standing Committee (Scotland) to defer a decision on the Ministry's offer, in view of Scotland's rejection of the offer from the Department of Health, and in view of the further negotiations that were to take place in Scotland the following week. The Executive, said Mr. Graham, felt unable to ask the Conference to withhold a decision on the Ministry's amended offer. But, in order to protect chemists in Scotland against pressure to accept terms they did not consider satisfactory, THE CHAIRMAN obtained permission from the proposer and seconder of the motion of acceptance to introduce modifications. The resolution, as put to the Conference, was in the form recorded last week.

Rota Service Payments

Considerable discussion took place on the suggested differential rates for rota service dispensing. Replying, MR. MALLINSON pointed out that it would be for a local Executive Council, through its hours of service subcommittee, to determine what rota service was needed in an area, and that the Pharmaceutical Committee would have a vital part to play in making effective arrangements for the provision of service. The Ministry of Health was in touch with the Home Office on the possible need for

modifications in the Shops Acts and Shops (Sunday Trading Restriction) Act.

The Conference then passed to consideration of Plan A and Plan B methods of flat-rating, and finally authorised the Negotiating Committee to reach a decision after a period of investigation, and after taking skilled actuarial advice.

The discussion on flat-rating prompted questions on current delays in payments by pricing bureaux. MR. T. HESELTINE, a member of the N.P.U. Executive, and of the Ministry's recently appointed Central Pricing Committee, claimed that central control would ensure more effective liaison between the bureaux, though regional pricing committees might still be found necessary. The Conference adopted *nem. con.* the Ministry's offer that, in the interim before any flat-rate system could be put into operation, pricing should be on the N.H.I. Drug Tariff basis, with fees 161.5 per cent. in excess of the Drug Tariff fees. It was stated that Drug Tariff ingredient costs would be calculated at tax-inclusive levels, with an oncost of 29.5 per cent. until August 1; after that date, the tax-exclusive costs would be used for exempted drugs, etc., and the oncost cost adjusted to 33⅓ per cent. Rota service payments and the container allowance would operate from July 5.

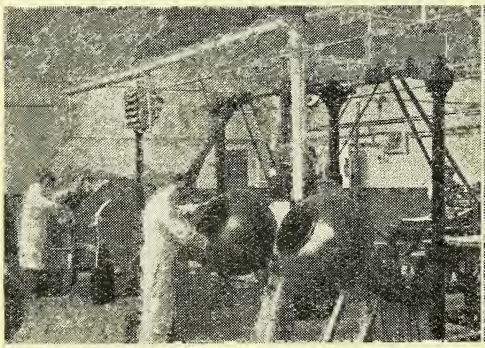
Recommendation to Contract

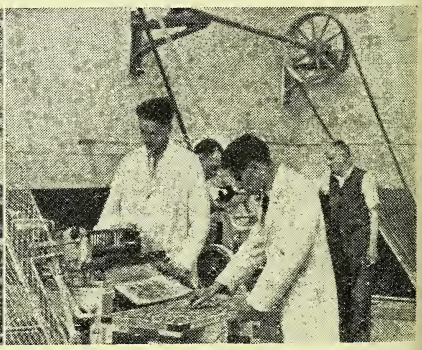
With seventeen dissentients, the Conference agreed to recommend all potential contractors to enter into contract with the Ministry on terms to be offered in a memorandum they would shortly be receiving from the appropriate Executive Council.

MR. GRAHAM (chairman, N.P.U. Executive) brought the general debate to a close with a felicitous tribute to the leading part which Mr. Mallinson had played not only in the current negotiations but throughout the period since the 1911 N.H.I. Act, and Mr. Mallinson, on rising to reply, was received with an ovation. The proceedings ended with a vote of thanks, which was carried with acclamation, to the chairman.

A NEW EIRE FACTORY

A NEW factory covering about 14,000 sq. ft. was opened recently at Blackrock, co. Dublin, by F. H. Steele & Co., Ltd., for the manufacture of an extensive range of tablets and lozenges, chemists' confectionery, toilet articles and proprietaries. The factory is surrounded by lawns and flower beds, and the manufacturing departments are all on ground level, separated by glass partitions. Modern equipment is installed, including a hot-air chamber for hardening pastilles (claimed to be one of the finest in existence); and further equipment valued at more than £5,000 is on order. The factory also produces fruit cordials, medicated and non-medicated chewing-gums, the sales of all of which (except one non-medicated chewing-gum) are confined to chemists. The managing director of the company, which was established in 1947 with a capital of £60,000, is Mr. Frank H. Steele. The majority of the shareholders are pharmacists in retail business, and all pharmacists in Eire are invited to inspect the factory without appointment at any time during working hours. Plans have been prepared for developing an extensive export business in addition to meeting all home demands.





Left: A battery of coating machines. Right: Depositing pastille base in starch moulds.

LIVERPOOL'S PHARMACY SCHOOL

Sole survivor of the privately owned pharmacy schools, Liverpool School of Pharmacy owes its continued success to the personality of its principal and its intimate connection with the century-old local Association

FOR forty years the Liverpool School of Pharmacy has been so inseparably linked with the personality of Mr. H. Humphreys Jones, Ph.C., F.R.I.C., that its previous quarter-century of existence—under two distinguished predecessors—seems almost legendary. Yet whoever may overlook those origins, it is not the present principal of the School, who regards himself as the upholder of a tradition that links the School with the century-old Liverpool Chemists' Association, and the Association with the very foundation of the Pharmaceutical Society—and in whose mind the Society's emergence was only one wave in an upsurge of interest in natural science that came to full flood in Darwin's voyage on the Beagle—that venture to which the "Origin of Species" is so heavily indebted.

Who shall say that, as a reading of history, this picture is too fanciful, when throughout half a century—since he was himself a pupil at the School—its dynamic has carried the doyen of pharmacy teachers and centenary-year chairman of the Association over obstacles that would have daunted a man of lesser resolve or inferior inspiration?

The Society, argues Mr. Jones, was founded for the dual purpose of withstanding attacks upon the business of a chemist and druggist and of "elevating the profession of pharmacy by furnishing means of proper instruction," and these aims, permeating the provinces, were equally embodied in the constitution of the Liverpool Chemists' Association, founded 1849. The new Association gave a proper emphasis to education both by helping to promote the Liverpool Botanic Gardens and by sponsoring lectures on pharmacy and kindred subjects at the Royal Institution. Early lecturers included W. Carter, M.D. (materia medica) and J. G. Nevins, M.D. (botany).

Private Pupils—then Evening Classes

In 1882 John Septimus Ward, Ph.C., a Council-prize medallist of the Pharmaceutical Society, opened modestly at a pharmacy at 36 Oxford Street, Liverpool, a "Liverpool School of Pharmacy" at which he gave, at first, private lessons to persons wishing to qualify as pharmacists. In 1883 he inaugurated evening classes, and the next year day classes for pharmaceutical Preliminary and Minor pupils. In 1885 Ward was approached by the Chemists' Association—whose own lecturer in chemistry, Edward Davies, F.C.S. (one of the analysts in the famous Maybrick murder case of a few years later)—had resigned. Agreeing to submit his school to an annual inspection by the Association, Ward was permitted in return, in seeking students, to claim that "The curriculum of this school has been submitted to the

Council of the Liverpool Chemists' Association, and is approved and recommended by that body." The School also secured recognition as a place of training for the First Medical examination, and removed to Newington, Liverpool. In 1892 Ward died. He was succeeded by a former pupil, Robert Charles Cowley, Ph.C., under whom the school twice found new homes, in 1894 at Sandon Terrace, Upper Duke Street, and in 1904 at Royal Buildings, Colquitt Street.

Dominie in Embryo

Among Cowley's pupils in 1899 was a young Welshman, son of a hard-working Carnarvonshire farmer who, seeking for his son a better future than his own (and medicine and law being out of the question) encouraged the boy to study to become a chemist. Working on the farm until 3.30 each day the young Humphreys Jones broke off to spend the rest of the day learning Latin, English and arithmetic in order to pass his "prelim." His studies were under the tutelage of the schoolmaster at the Maenan board school —a solitary building serving a very sparsely populated area and itself four miles from the market town of Llanrwst. To reach it meant a long walk each way through the woods—shamefacedly if he should encounter another farm lad, because those who went to school after reaching thirteen or fourteen years of age were held locally to be weaklings!

With the hurdle of the preliminary examination cleared, life became no easier. "Solitary confinement" in a three-year apprenticeship in an agricultural town was the next stage. It meant that he must continue to secure his education the hard way. There was little organised training, though plenty of opportunity to learn for oneself. However, "nothing did me more good," he said in later life, "than puzzling over the laws of Avogadro and Boyle, Graham and Dalton," even if—or perhaps because—"it was a long time before any light did dawn." To his very slowness of apprehending he attributed much of his later success as a teacher—he was always acutely aware of what his students found hard to grasp. But retail experience was to come first. Qualifying in 1899 he became an assistant and later manager at the Princes Road, Liverpool, pharmacy of the late W. R. Smith. From there he secured in January 1904 a post with Clay & Abraham, Ltd., Liverpool, rising to second assistant and using his evenings to study for the "Major," which he took and passed in 1904. His four-and-a-half years with Messrs. Clay & Abraham proved an excellent preface to the career that was to follow.

In 1908 Cowley, proprietor of the Liverpool School, left to become principal of the College of Pharmacy at Brisbane, Australia. He had already signed up thirty-three pupils for the October session at the School, and Humphreys Jones, confident in his ability to teach, forsook shop life to become Cowley's successor. Alas for his hopes, thirty-two of the students withdrew their applications, not daring to risk their money with an untried teacher! The one and only student who remained proved an outstanding pupil, later taking his Ph.C. and going on to secure a medical qualification. However, one student does not make a school or provide a livelihood for the schoolmaster, and only the fees of a few part-timers saved teacher and school from failure and oblivion. Once examination results started coming through, of course, his reputation as a teacher was secure, and the School began to prosper. His position was further established when he became a Fellow of the Chemical Society in 1909 and took over, in the same year, the secretaryship of the Liverpool

Students at work: Left, in one of the chemistry laboratories; centre, in the

Chemists' Association, a post he relinquished three years later to become its president, 1912-15 (he was again president in 1932-33 and takes office now for the third time in the Association's centenary year).

Thirteen Hours a Day

The 1914-18 war threatened the School's existence by taking away the young men of military age, but women students came forward in their place—always subsequently to form a substantial percentage of entrants. Staff was also a problem, and for a time the principal was also lecturer, demonstrator and expert in every subject taught. For ten years he put in an average of thirteen hours a day, using his spare moments to qualify in 1919 as an Associate of the Institute of Chemistry. In the post-war years there was heavy pressure of ex-Service students (300 in three years) and all other work had to be shelved. The end of that pressure left a gap which Humphreys Jones filled by studying for the London Matriculation examination, which he passed in 1923. In the year following he spent several thousand pounds on enlarging and re-equipping the School, mainly to adapt it for training under the new educational changes, under which the Minor examination was divided into two parts. In 1927 he passed the examination for a Fellowship of the (now Royal) Institute of Chemistry (Branch: Food and Drugs), and within a few days was appointed an examiner of the Pharmaceutical Society. Already (in 1920) he had served as local secretary of the British Pharmaceutical Conference at its Liverpool meeting. Twenty years later he was Conference chairman at its London meeting.

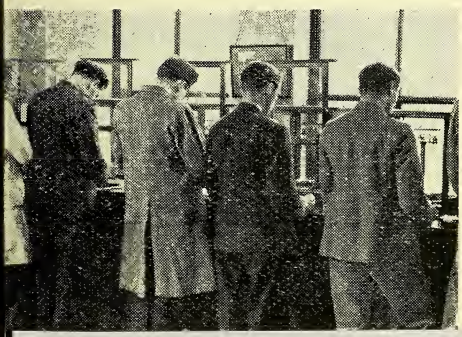
Mr. Humphreys Jones freely acknowledges the responsibility of his staff for much of the success of the School and the long service most of them have had is proof of a mutual regard. They are: Mr. John Butler, B.Sc., Ph.C., F.R.I.C. (joined staff 1918); Mr. W. E. Coates, B.Sc., M.P.S., A.R.I.C. (1924); Mr. W. G. Cottom, M.P.S., F.S.M.C. (1926); Mrs. J. McMillan, B.Sc.; physiology: Mr. W. M. Beattie, M.D., F.R.C.S.

A zoology class takes advantage of fair weather to study on the school roof.

Changing conditions in pharmacy have modified the relationship between the School and local Association, which since 1924 has no longer been called upon to approve the syllabus or inspect the premises, but officers of the Association continue to make occasional courtesy visits, and there has always been a far closer connection between the School and the craft and trade in the city than between the pharmacy department of any university or technical school and the chemists in its vicinity.

Perhaps for that reason it is almost unheard-of for a Liverpool apprentice or student to train for the Chemist and Druggist examination elsewhere than at the venerable institution in Blackburne Place, and the number of students has been maintained though one by one the other privately owned training establishments have put up the shutters or been absorbed into larger and more generalised academic institutions. For the 1949 season the School is already well booked up and a few students have even signed on for 1950.

right, in the balance room.



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The next Examination for the Fellowship and Honours Diplomas will be held at Birmingham, the week commencing Monday, July 19th, 1948.

Syllabus, Entrance Forms, etc., from:—
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VOL. CXLIX JUNE 26, 1948 No. 3566

Advice to Contract In

So far as England and Wales are concerned, preparations are now almost complete to ensure a smooth gear-change for a start to the National pharmaceutical service omnibus on July 5. Detailed fare schedules and time-table have been drawn up, arrangements for inspection of tickets are in hand, the drivers are being recommended by their Union to accept engagement (the leaders had a friendly final interview with the Ministry of Health on June 22), and a "fair wages" clause safeguards the interests of the conductors.

All follows from the highly successful conference of June 17, at which delegates gave proof of their political wisdom, not simply by endorsing the Ministry's amended terms by an overwhelming majority, but also by refusing to countenance an admirably-intentioned though impractical resolution of dismay at the amount of the basic fee, and a temporising and equally theoretical amendment to wait and see what happens. With the intentions of both of these moves very many of the delegates may have been in sympathy, in a general way, but they recognised that the time had arrived for positive action. They realised that it was nonsense at this stage to talk of a further twelve months' delay and self-deception to ratify an amount and simultaneously to assert that they placed a much higher value on their services.

Hostility to the offer came mainly, as one would expect, from areas able to support high-class private dispensing businesses, while support was strongest from industrial areas. Nevertheless, it is a point worth noting, as proof that pocket is not the only factor that weighs with pharmacists, that the mover of the crucial resolution of acceptance was a Cheltenham chemist, speaking on behalf of a unanimous branch and Pharmaceutical Committee, for Cheltenham would doubtless cede nothing to Bath, Harrogate or Torquay in its claim to provide the highest type of pharmaceutical practice. It is also noteworthy that, of the total of thirty-three delegates who voted against acceptance, 50 per cent. abstained from opposing a later resolution authorising a recommendation to chemists to sign the contract.

An important change now takes place in the relation. of contractors to the Ministry of Health. The Contractors' Committee (representing National Pharmaceutical Union, Company Chemists' Association, and Co-operative Union) gives place to the Pharmaceutical Functional (Whitley) Council as the appropriate body to negotiate any modifications in the terms or conditions of service. Upon the Whitley Council contractors are only a part (with public pharmacists) of the 50 per cent. of "employed" members of the Council. To herald the change is not to say, however, that the Committee goes out of business. It must remain to promote and voice the interests of that section of the profession that continues to be, both from the numbers of pharmacists it represents and the number of prescriptions they handle, easily the most important in the craft.

We believe employees of the contractors are continuing their campaign for direct representation on the Whitley Council. There is not now, however, the same risk to them of submersion if they fail in their object, for the "fair wages" clause in the contract, which stipulates rates of pay "not less favourable than the J.I.C. scales," offers them a guarantee far more solid than anything which—without it—they could achieve by direct representation on the Whitley Council.

At the Conference the delegates made it obvious that acceptance was by no means the only subject they had come to settle. There were also long discussions, for example, on rota payments and the method of "flat-rating" to be adopted. In the

first, after considering a variety of other proportions, they finally agreed to the 7s. standard rota rate and 12s. 6d. for Sunday and public holiday work, though they will carefully watch how it works out in practice. They also discussed the relative merits of flat-rating plans A and B, of which details have already been published, but were finally influenced to leave the decision to the Contractors' Committee, helped by an expert opinion from the consultant actuary (Mr. W. Penman) who has been retained as adviser by the N.P.U. after his able chairmanship of the Working Party.

Iodine in Goitre Prevention

JUST over five years ago the Medical Research Council's Accessory Food Factors Committee decided to set up a special subcommittee to investigate the incidence of thyroid enlargement in relation to the mineral content of drinking water in various areas of the country. It had been known for many years that absence of iodine from the waters of limestone areas was associated with goitre, but further evidence was sought by using an improved method to examine the water for calcium, magnesium, total hardness, iodine and fluorine. The last-named element was included because of the discovery during the early war years that a relatively high degree of thyroid enlargement accompanied endemic fluorosis in parts of North Oxfordshire, where the drinking water had a low iodine and a high fluorine content.

A year after its formation the new goitre subcommittee issued a recommendation that where the iodine content of drinking water was low (under 3μ gm. per litre), iodised salt should be used. In the recently-published Memorandum No. 18 of the Medical Research Council (H.M. Stationery Office, price ninepence), a survey is given of further investigations. In areas where the water had a similar iodine content, but different hardness, a higher incidence of goitre was found with the greater degree of hardness. General use of iodised salt is recommended as a prophylactic measure in all parts of Britain, and it is suggested that the addition should be either one part of potassium iodide to 10,000 parts of common salt, or, where packeted table salt only is iodised, one of iodide to 40,000 of salt.

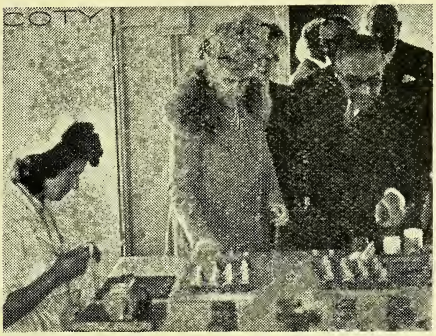
The additional cost of iodised compared with untreated salt is estimated at no more than fourpence per head of the population per annum. The daily intake of potassium iodide would be about 0.1 mgm., corresponding to 76μ gm. of iodine. Recently the Ministry of Health has included potassium iodide in the A and D vitamin tablets issued to pregnant women.

Presenting Scientific Information

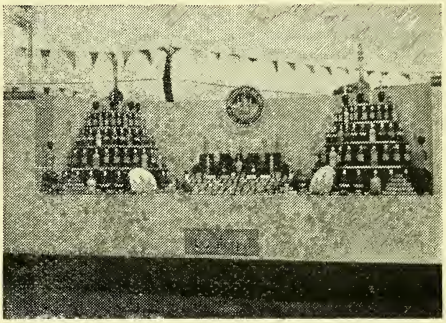
A ROYAL SOCIETY conference for devising means of improving existing methods of collecting and distributing scientific literature began in London on June 21, convened at the invitation of the Royal Society Empire Scientific Conference, 1946. Although the conference is concerned only with the scientific papers in English, it has been estimated that a total of 750,000 reports every year are scattered throughout some 40,000 publications. Tracing information in the present mass of publications, as Professor J. D. Bernal told the publication and distribution section of the conference on the opening day, is a sort of "friction slowing down scientific effort." Pointing out that erroneous reports were being circulated about recommendations he had made, Professor Bernal stated that a system of distributing information was needed that would get to any individual scientific worker a maximum of relative information in a minimum of time and at minimum cost. The system should make greatest use of existing agencies including, in particular, scientific societies and scientific journals. An appeal for more numerous authoritative reviews of scientific information was made by Sir Henry Tizard during the inaugural ceremonies.

Concurrently with the conference, an exhibition is being held to illustrate photographic, microphotographic and other methods of distributing information. The exhibits include card-sorting machines designed for use with the Dyson and other systems of chemical nomenclature (see *C. & D.*, 1947. I. 90). It is hoped to give an account of the conference and exhibition in a forthcoming issue.

NEWS IN PICTURES



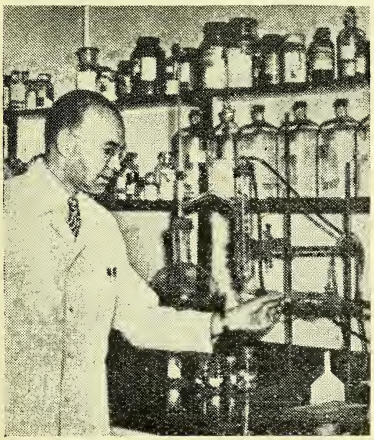
QUEEN MARY AT PERFUME FACTORY. H.M. Queen Mary photographed during 2½-hours' tour of the works of Coty (England), Ltd., at Brentford.



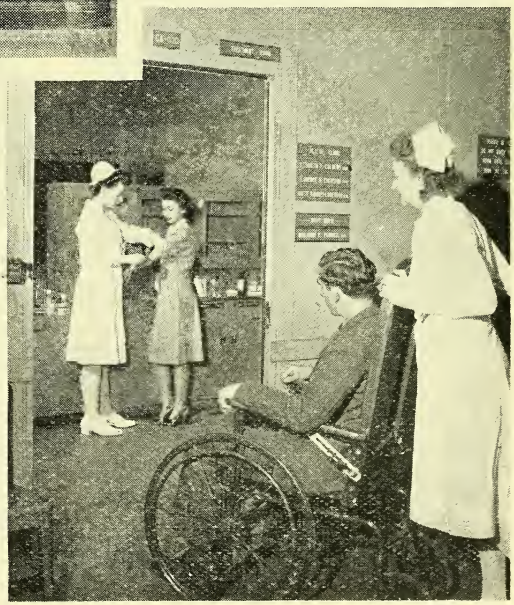
A COVENTRY INDUSTRY. Display (on motor lorry) of products of Wyleys, Ltd., at an exhibition of Coventry's industries visited by Princess Elizabeth recently.

PRIDE OF EPSOM. A Derby-day visitor's photograph (left) of the handsome shop-front of Harsant & Lee, chemists, Epsom.

FREE AND INTERNATIONAL HEALTH SERVICE. Not the intended forerunner of a universal scheme of free medical service, but none the less "international" in character, is a clinic at Lake Success, New York, U.S.A., at which treatment is provided free for members of delegation staffs of the United Nations. Picture below shows a patient arriving for treatment. (By courtesy, "Morning Advertiser.")



T.B. RESEARCH CLAIMANT. Dr. Sidney Raffel, San Francisco, U.S.A., who claims to have isolated from tubercule bacillus a wax-like substance believed responsible for cell destruction in tuberculosis.



B.P. CHANGES AT A GLANCE

(*Continued from* THE CHEMIST AND DRUGGIST, *June* 19, *p.* 804)

New monographs in **Black Type.** Retained monographs in CAPITALS. Omissions in [*Italics*] between square brackets. M.W.=Molecular weight (previous figure in parenthesis). Min.=Minims. gr.=grain. gm.=gram. M.P.=Melting point.

EPHEDRINÆ HYDROCHLORIDUM. — M.W. 201.7 (201.6). Description: Taste, bitter (added). M.P. 217° to 219° (as Addendum IV). Specific rotation, —33° to —35.5° (—33° to —36°). Preparation: Tabellæ Ephedrinæ Hydrochloridi. Doses, ¼ to 1 gr. (¼ to 1½ gr.).

[*Ergometrina.*—Added Addendum I, now deleted.]

Ergometrinæ Maleas.—Synonym: Ergonovine Maleate. Formula shown graphically. M.W. 441.5. Purity, not less than 95.0 per cent., calculated with reference to substance dried in vacuo at 110°. Description: White or faintly yellow microcrystalline powder; odourless. Soluble at 25° in about 36 parts water; in about 100 alcohol (90%); insoluble in solvent ether and chloroform. Identification: A. Solution in water has blue fluorescence. B. Deep blue colour with dimethylaminobenzaldehyde solution. M.P. 195° to 197°, with decomposition. Specific rotation of 1.5 per cent. w/v solution in water, in 100 mm. tube, +53° to +56°, referred to dried substance. Ergotoxine and ergotamine: Ammonia is not evolved on boiling with solution sodium hydroxide, and a 0.01 per cent. w/v solution in water does not yield a precipitate with solution of potassio-mercuric iodide. Loss on drying, at 110° in vacuo, not more than 2.0 per cent. Assay: Colorimetrically with solution of dimethylaminobenzaldehyde against ergotoxine ethanesulphonate solution, 1 mil equals 0.1 mgm. ergotoxine. Factor, for converting ergotoxine to ergometrine, 0.538. Storage, in a well-closed container, protected from light. Preparation: Injectio Ergometrinæ Maleatis. Doses, 1/120 to 1/60 gr. Intramuscular, 1/240 to 1/120 gr. Intravenous, 1/480 to 1/240 gr.

ERGOTA. — Tabellæ Ergotæ Præparatæ added to preparations.

ERGOTA PRÆPARATA. — Addendum VI strength (double that of 1932 B.P.). Description (added): Purplish-brown; odour and taste, characteristic. Microscopical: Small, unequal, rounded cells with thin, colourless, higly-refractive chitinous walls; occasional groups of purplish-brown, narrow, rectangular cells from the outer region; protein matter; fixed oil, absent, or if present in small amount only; vascular tissues, trichomes, starch and calcium oxalate, absent. Preparation: Tabellæ Erogtæ Preparatæ.

Ergotaminæ Tartras. — $(C_{33}H_{35}O_5N_5)_2$, $C_4H_6O_6$. M.W. 1313.4. Description: Colourless crystals or a white, crystalline powder. Readily soluble in water, solution liable to become turbid, addition of tartaric acid being necessary to maintain it clear. Soluble in alcohol (90%). Identification: A. Dissolve 1 mgm. in 5 mils glacial acetic acid and 5 mils ethyl acetate; to 1 mil of solution add 1 mil sulphuric acid with continuous shaking and cooling; blue colour with red tinge develops. Add 0.1 mil test solution of ferric chloride previously mixed with equal volume of water; red tinge becomes less apparent and blue colour more pronounced. B. Dissolve 1 mgm. in 5 mils of 1% w/v solution tartaric acid in water; add slowly 1 mil of solution to 2 mils solution of dimethylaminobenzaldehyde, and mix; deep blue colour is produced. M.P. Softens about 187° and decomposes at about 192° without melting. Specific rotation of base: —150° to —160° (method of determination detailed). Foreign substances: Extraction of alkaloid (by chloroform), purification by acetone, crystallisation from water, and crystals washed with ether. Crystals are rhombic and highly refractory; they become a lustreless powder on drying, blacken on heating to 174°, and decompose with evolution of gas at 183° to 186°. Powder is soluble in chloroform and glacial acetic acid, but is less soluble in alcohol (90%), in benzene, and in solvent ether. Loss on drying at 100°, not more than 5.0 per cent. Storage: in an atmosphere of nitrogen, in a sealed tube, protected from light. Solutions are liable to deteriorate, and should be stored in a cool place, protected from light.

Doses: Single, 1/60 to 1/30 gr.; Subcutaneous, 1/240 to 1/120 gr.

[*Ergotoxinæ Æthanosulphonas Erythritylis Tetranitras Dilutus*].

EUCALYPTOL. — Graphic formula given. M.W. 154.2 (154.1). Indentification (added): Mix 3 gm. thoroughly with 2.1 gm. melted *o*-cresol; crystalline mass formed of freezing-point about 55°. Freezing point: 0.3° to 1.2°, corresponding to 98 to 100 per cent. w/w cineole (replaces 97.5% purity). Weight per mil, at 20°, 0.922 to 0.924 (instead of specific gravity, 15.5°/15.5°. 0.928 to 0.930). Assay omitted.

EXTRACTUM BELLADONNÆ LIQUIDUM.—Monograph restored. Modifications of Addendum V (permission to use Indian Belladonna) and Addendum VII (replacement by liquid extract of belladonna herb) cancelled. Alcohol (80 per cent.) is now employed as menstruum (in place of alcohol (90 per cent.) and distilled water). Alcohol content 48 to 66 per cent., v/v as Addendum I (63 to 73 per cent. v/v). Doses and strength note deleted.

EXTRACTUM BELLADONNÆ SICCUM.—Includes Addendum VII modification (i.e., made from Belladonna Herb).

EXTRACTUM CASCARÆ SAGRADAE LIQUIDUM.—Synonym: Cascara Sagrada Fluidextract (replaces Fluid Extract of Cascara Sagrada).

EXTRACTUM CASCARÆ SAGRADAE SICCUM. —Process of 1932 B.P. restored (Addendum VI alternative withdrawn). Directions changed to "evaporate the percolate to a viscous fluid. Continue the evaporation to dryness under reduced pressure" (instead of "evaporate percolate to dryness under reduced pressure"). Water-soluble extractive (new), not less than 80.0 per cent.

[*Extractum Cinchonæ*].

[*Extractum Cinchonæ Liquidum*].

[*Extractum Colchici Cormi Liquidum.*—Addendum VII preparation withdrawn and permission to dispense or supply in place of Liquid Extract of Colchicum (Seed) cancelled].

EXTRACTUM COLCHICI LIQUIDUM.—Monograph as corrected by Addendum I (in assay). Assay correction: . . . . 40 mils of filtrate represents 16 mils of liquid extract of colchicum under assay. Doses and strength omitted. Notification of Addendum VII that Liquid Extract of Colchicum Corm may be dispensed, when "Liquid Extract of Colchicum" is prescribed, cancelled.

EXTRACTUM COLCHICI SICCUM. — Monograph as corrected by Addendum I. Doses: $\frac{1}{6}$ to $\frac{1}{2}$ gr. (instead of $\frac{1}{4}$ to 1 gr.).

EXTRACTUM COLOCYNTHIDIS COMPOSITUM. —Ipomoea Resin is the present name for "Scammony Resin" and "Cardamom seed, freshly removed from the fruit, immediately reduced to fine powder, and used immediately" replaces "Cardamom, in fine powder."

EXTRACTUM ERGOTAE LIQUIDUM.—Monograph as amended by Addendum I ("Caution" notice added). Assay: 20, 10, 10 and 10 mils replace "four successive 10 millilitre portions" of a 1 per cent. w/v solution of tartaric acid in water . . . "

EXTRACTUM FELLIS BOVINI.—Synonyms (Fel Bovinum Purificatum; Purified Ox Bile) omitted.

EXTRACTUM FILICIS. — Synonym: Aspidium Oleoresin (Synonyms: Extractum Filicis Liquidum, Liquid Extract of Male Fern, and Oleoresina Aspidii omitted). Weight per mil, at 20°, not less than 0.995 gm. (replaces specific gravity (15.5°/15.5°), not less than 1.000). Strength is adjusted with olive oil "or other suitable official vegetable oil," continuing Addendum V permission to use arachis oil, cottonseed oil or sesame oil in place of olive oil.

[*Extractum Gentianæ*].

EXTRACTUM GLYCYRRHIZÆ.—"Evaporate to the consistence of a firm extract" (replaces "soft extract").

EXTRACTUM GLYCYRRHIZÆ LIQUIDUM.—Instruction added to evaporate until weight per mil at 20° is 1.198 gm. (instead of specific gravity 1.200 at 15.5°/15.5°). Preparation (added): An ingredient of Mistura Sennæ Composita.

EXTRACTUM HAMAMELIDIS LIQUIDUM.—Doses omitted and preparation (Unguentum Hamamelidis) added.

Extractum Hamamelidis Siccum.—Hamamelidis, in moderately coarse powder, 1,000 gm.; Alcohol (45 per cent.), a sufficient quantity. Exhaust hamamelis by percolation with alcohol (45 per cent.), remove alcohol from percolate, evaporate residual liquid to dryness at low temperature, and reduce residue to fine powder. Diluted industrial methylated spirit may be used if statutory regulations are observed. Storage: In well-closed container, in cool, dry place. Preparations: Suppositoria Hamamelidis; Suppositoria Hamamelidis et Zinci Oxidi.

EXTRACTUM HEPATIS LIQUIDUM.—Details of preparation (previously given under

"Extractum Hepatis Siccum," now deleted) included with quantities appropriate for 1,000 mils liquid extract of liver. May be prepared as follows: Mince 8,000 gm. of trimmed ox or sheep liver; add 10,500 mils alcohol (80 per cent.) and 8.8 mils of a mixture of equal volumes of sulphuric acid and distilled water; set aside for twelve to fourteen hours, stirring frequently; filter and reserve the filtrate. Further instructions as B.P. 1932, pp. 171-72, commencing with "Collect the residual liver tissue . . ." and ending ". . . let the extract remain exposed to the dehydrating action of the alcohol until it becomes brittle," the appropriate amount of alcohol (50 per cent.), 20,000 mils, and reduction to 800 mils being specified (instead of 12,500 and 500). Extract is collected on a filter and preparation completed by adding glycerin, alcohol (95 per cent.) and distilled water in such proportions that 1,000 mils contain extract equivalent to 8,000 gm. of original liver, not less than 10.0 per cent. v/v of alcohol, and not less than 20.0 per cent. of glycerin (same).

[*Extractum Hepatis Siccum*].

EXTRACTUM HYOSCYAMI LIQUIDUM.—Assay factor, 0.005787 gm. (0.005784). Alcohol content, 50 to 60 per cent. v/v, as Addendum I (60 to 70 per cent). Contains in 6 minims about 1/320 gr. of the alkaloids of Hyoscyamus, calculated as hyoscyamine (previously 1/370 gr.).

EXTRACTUM HYOSCYAMI SICCUM.—"Mix" is added after "Pass the powdered Extract through a No. 22 sieve."

EXTRACTUM IPECACUANHÆ LIQUIDUM.—Assay factor, 0.02403 gm. (0.0240). Alcohol content, 63 to 69 per cent. v/v (75 to 80 per cent.).

EXTRACTUM KRAMERIÆ SICCUM. — Synonyms (Extractum Krameriæ and Extract of Krameria) deleted. Water-soluble extractive (new), not less than 80.0 per cent.

EXTRACTUM MALTI.—Monograph as modified by Addendum V (allowing preparation from malted barley or from malted barley mixed with not more than 33 per cent. of malted wheat). Protein not less than 4.0 per cent. w/w (4.5). Weight per mil, at 20°, 1.39 to 1.42 (replaces specific gravity, at 15.5°/15.5°, 1.40 to 1.42). Diastatic value (new) is determined in terms of "Conversion Solution," prepared by maintaining at 21° for exactly one hour a mixture of 5 mils solution of malt extract (1 in 50 w/v) and 100 mils soluble starch solution (1 in 50 w/v); then adding 20 mils N/10 sodium hydroxide (mixing immediately and washing thermometer and neck of flask with alkali), cooling to 15° and making up to 200 mils with water. The malt extract solution is to be used immediately without filtration. Solution of soluble starch (made by boiling) contains acetate buffer solution (1 in 50) and should also be freshly prepared. Not more than 20 mils conversion solution should be required to remove the blue colour from 5 mils (boiling) solution of potassio-cupric tartrate, with 0.2 mils of methylene blue solution (1 per cent.) as final indicator. Assay modified, viz: Transfer about 5 gm., accurately weighed, to a long-necked flask and add 20 mils nitrogen - free sulphuric acid and 10 gm. of a mixture of selenium 12.5 gm., ferrous sulphate 12.5 gm., and potassium sulphate 500 gm. (replaces potassium sulphate and small crystal of copper sulphate). Boil briskly until liquid is a pale lemon-yellow, then boil for a further ten minutes. Remainder of assay unchanged. Doses, daily, given in divided doses, 60 min. to 1 fl. oz. (60 to 240 min.).

EXTRACTUM MALTI CUM OLEO MORRHUÆ.—Preamble modified: Contains 10.0 per cent. w/w of Cod-liver Oil (limits, 9.3 to 10.7), corresponding to 15.0 per cent. v/v of Cod-liver Oil (limits, 14.0 to 16.0). Assay (added): Mix about 2.5 gm. with 5 mils water, transfer to 100-mil stoppered cylinder, using further 5 mils water. Add 5 mils alcohol (95 per cent), 1 mil strong solution of ammonia and 25 mils solvent ether. Shake vigorously for few minutes and add 25 mils light petroleum (B.P. 50° to 60°); shake and allow to stand until ethereal layer is clear. Siphon off ethereal layer. Shaking out is repeated twice with 20-mil portions of solvent ether and light petroleum in succession. Solvent is removed from mixed ethereal solutions by evaporation on water-bath in an atmosphere of nitrogen; residue dried in an atmosphere of nitrogen at 100° and weighed. Given in divided doses, 60 min. to 1 fl. oz., daily. (60 to 240 min.).

THE ANTIDOTARIUM OF NICOLAUS

By Kalamos

HISTORIANS agree that the first book to attain pharmacopœial status was the "Nuovo Receptario" published in Florence in 1498. Though this verdict need not be disturbed, medicine and pharmacy owe, I suggest, a greater debt to a much older formulary which was a precursor of many such collections. The Antidotarium of Nicolaus of Salerno, who taught in that famous school in the first half of the twelfth century, conforms to a great extent to the present conception of a pharmacopœia. In 1332 the Faculty of Medicine of Paris decided that all master-apothecaries in the city must possess this Antidotarium, corrected by the Faculty; it was the subject of several commentaries in various languages; and it was selectively translated into Old French. On the other hand, brief remarks on etymology and therapeutics place it rather in the class of dispensatories. After the introduction of printing it appeared in numerous editions, beginning with an issue in Venice in 1471.

A Popular Formulary

The Antidotarium comprises 140 formulas. It begins on a personal note:

> "Incipit Antidotarium Nicolai. Ego Nicolaus rogatus a quibusdam in practica medicine studere volentibus: ut eos recto ordine modum conficiendi dispensandique docerem . . . . " (I, Nicolaus, requested by certain persons, wishing to study the practice of medicine, that I would teach them in correct order a a method of compounding and dispensing . . . .)

These 140 formulas closely resemble others familiar to readers of pharmaceutical history. Mithridatium (spelt Metridatum in the copy used in preparing this article) still appears in "Pharmaceutical Formulas." Oximel (*sic*) was prepared by boiling eight roots in strong vinegar and adding clarified honey. Requies magna contained opium, mandragora, roses, violets, nutmeg, cinnamon, three kinds of sandalwood and a few more ingredients: it was to be given in cases of fever. Of Pillule Auree, an aloetic pill, we are told that, as gold is esteemed among other precious metals, so is this pill among others.

Two of the electuaries, Electuarium Ducis and Electuarium Pliris Arcoticon—now, I believe, obsolete—enjoyed a lengthy fame, attested by literary allusions and drug-jar labels. The duke whose name was borrowed for the first of these has been identified by Dr. Paul Dorveaux, in "L'Antidotaire Nicolas" (1896), as Roger, duc de Pouille (1060(?)-IIII). The title of the second electuary has puzzled more than one commentator. The opening words used by Nicolaus in describing the galenical are explicit: "Pliris est completa medicina, arcoticon principium interpretatur." (Lemery, in his "Pharmacopée Universelle," refers Pliris to the Latin plenus (full), and Arcoticon to the Greek ἀρχή (dominion). As might have been expected the electuary was recommended for several purposes. About thirty drugs constitute the formula; they include musk, pearls, coral and silk. Dr. Dorveaux has mentioned eight formulas from the Antidotarium that were retained in the 1884 French Codex.

One of the commentaries on this classic is worth individual mention. In the middle of the twelfth century a "glossary" — it was rather more than that, however—was written by Matthaus Platearius, and was destined to a life about as long as that of the Antidotarium itself. One of the printed copies of this work in the British Museum (I I B 22279), dated 1489 and bearing the colophon of a Venice printer, is somewhat of a typographical curiosity. The black type is varied by large initial letters in blue and red; the commentary is so voluminous that occasionally the main text is reduced to a line or two, and is placed, not as in modern books at the top of the page, but on an "island site" further down. We may hope that, like the Antidotarium in the edition referred to, this long exposition "finit feliciter." Its students must have needed much patience.

A PHARMACIST'S ANTHOLOGY

BUT [in Galway] men still eat carragheen moss. It is scraped from the rocks by the sea, the wet rocks when the tide is out. It is a stuff that looks like sponge, the way it is branched, though it is more open and porous; the stalk is rubbery and has the promise of a leaf on it. Armloads of it are drying in shed or house, and children chew at it and eat it, in spite of the saltiness, as a kind of wild tobacco. From "*God in an Irish Kitchen*," *by Leo Richard Ward.*

AFRICAN FISH POISONS

By A.E.H.

THE first time I saw African boys catching fish with the aid of a poison plant, my mind shot back to my own boyhood. My father taught me to kill fish in a more sportsmanlike manner, but I remember him telling me how, in his own

Tephrosia Vogelii, Hook

youth—spent in the fields of Finchley—he had bought, from a local chemist, dried berries of the *Cocculus indicus* plant. Some other boy had given him the tip. He used the berries by crushing them into a powder which he mixed with bread paste, before setting out to the local farmer's pond, there to throw pellets of the poisoned paste into the water Sure enough some fish soon appeared on the surface and swam in ever-narrowing circles until they lay insensible on their sides, only to recover in reverse fashion after a time. When the farmer caught the boys in the act, he stood scratching his head, too amazed at the antics of the fish to carry out a flanking movement on his own constant enemies. I have since read how the *Cocculus indicus* is used as a fish poison by the natives of India, who also use the Levant berries from *Anamirta paniculata,* another plant of the Menispermaceæ, used as a fish poison in Malabar, along the coast of India, and in the East Indies. Levant berries are a source of crystalline picrotoxin. In Africa the natives generally use two poisonous plants, the one in most common use being the *Tephrosia Vogelii,* the other *Mundulea sericea,* on the rotenone content of which a good deal of research has been done at the East African Amani Institute and elsewhere.

Tephrosia Vogelii is an upright herbaceous plant growing to a height of four or five feet, with large vetch-like leaves. The flowers are handsome, rather like lupins, and of a pearly, creamy-white colour. Some writers say that the natives use a purple-flowered plant to poison fish, but I have never seen them do so. There is a purple-flowered *Tephrosia* that looks similar, and might be mistaken for *Vogelii,* but it is, in fact, a different species.

Indeed, during twenty years of constant travelling and plant collection in the territories of British East Africa, I have never seen the fish-poison variety of *Tephrosia* growing in conditions in which it could be

Mundulea sericea (Willd.) A. Chiov.

called a wild growth. The plant is found growing among native huts and fields, or on old abandoned land, or perhaps as an obvious "escape" in African tribal areas. The young shoots are plucked, bruised in an old wooden mortar, and placed in a bag of coarse cloth or sacking. Half a sackful secures a goodly number of fish from a fair-sized stream. The small fish are always the boys' portion, and the bigger fish are eaten by their parents, so the men fish the deeper waters while the boys adopt the smaller streams. (The best of everything invariably goes to the selfish male adult, or to the very young, while the women and active children share the inferior part that is left).

The prepared poison is taken to the middle of a shallow reach, where the sack of bruised stems is placed underfoot and trampled in the current. Other men wade into the river a few hundred yards down stream, ready to dip out the stunned fish with baskets as they come rolling down on the surface, feebly struggling the while to reach the rushes. Fish of all kinds, both large and small, are affected at once. Fish that live on the bottom of slimy algæ, and which would seldom be caught by other means, are all gathered for the pot; and for hours afterwards, for hundreds of yards downstream, fish can be seen recovering but still intoxicated among the reeds.

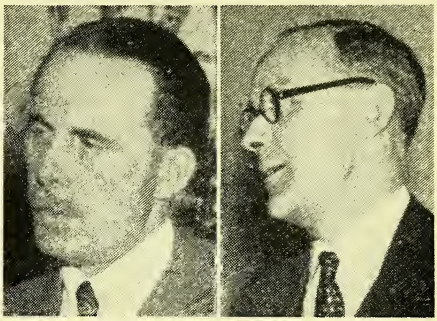
The Africans of the hinterland are peculiar in their tastes: They are avid for meat, and yet reluctant to kill their own livestock. They feed tirelessly on vegetable mashes and porridge and, though fond enough of fish, seldom eat it. Most of the species of fish are too bony for impatient appetites, and, since there are never more than a few plants of *Tephrosia* in a man's garden, the supplies of poison are limited.

There are areas—often in the hilly regions where the second and stronger fish poison plant is to be found growing wild—where fish are scarce in the rivers. In these hilly areas Europeans try to stock the streams with trout, and have to take special precautions to see that the Africans do not use their poisons. The *Mundulea sericea* is indigenous in many parts of Africa, and has also been recorded in India, Ceylon and Madagascar. The plant is an erect shrub or small slender tree with racemes of handsome lilac flowers. It may grow to a height of 25 ft., but is often retarded and coppiced by bush fires; I have myself collected specimens west of Lake Victoria near the Belgian Ruanda. All Africans agree that the *Mundulea* is much more deadly than the *Tephrosia*. They say also that, if too much of the *Mundulea* is used, there is risk of human poisoning when the fish is eaten, that the poison bark varies in strength, and that the smooth bark is more potent than the rougher corky material. The truth of the last statement was proved at Amani by Dr. Worsely, who showed that there was great variation in the rotenone and insecticidal properties of the bark.

In Africa the stems of the *Mundulea* are cut down, and the bark either shaved off with a knife or stripped off with the fingers, pounded, and used in the same way as *Tephrosia* poison. A much higher percentage of the fish, however, are killed outright by it or fail to recover.

A 125th ANNIVERSARY

The staff and pensioners of John & E. Sturge, Ltd., were guests of the directors at a garden party held on June 9 to celebrate the 125th anniversary of the establishment of the company. John Sturge founded the business at Wheeleys Lane, Birmingham, in 1823, later taking his



Mr. A. P. Wilson (managing director) and Mr. A. L. Wilson (chairman).

brother Edmund into partnership. When John died Edmund took into partnership his brother-in-law, Arthur Albright, who in 1844 went to Oldbury to devote all his attention to his phosphorus concern. Edmund handed on to C. D. Sturge and Francis Clayton, who retired in 1889 and were succeeded by the brothers Henry Lloyd Wilson and Alfred Wilson, whose two sons are the present directors. The business has manufactured citric acid since its foundation. Precipitated calcium carbonate was originally produced by the company as a by-product from the phosphorus works, but to meet the increased demand a special factory was later built at Lifford, near Birmingham, to manufacture the product from limestone.

An event at the garden party.

MISCELLANEOUS INQUIRIES

Formulas given below may have been prepared for overseas subscribers and the inclusion of substances therein is no indication that they are available in Britain or, if available, permitted to be used for the purpose.

Sale of Amphetamine.—*F. H. W.*—The sale of amphetamine, even as an ingredient of an inhalant, is restricted to authorised sellers of poisons.

Pethidine in Hydrochloride.—*R. D. S.*—The percentage of pethidine in pethidine hydrochloride has been agreed by the Home Office Drugs Branch at 87.15. For ordinary purposes (except for the "largest (wholesale)" quantities) calculations on the basis of 87 per cent. are permitted.

Removing Urine Stains.—*J. McD.*—Fresh urine stains are fairly easily removed by treating with dilute solution of ammonia. Old stains are more difficult but the following methods may be tried: (1) Treat the stains repeatedly with alcohol, or (2) Moisten the stains with 10 per cent. citric acid solution or very dilute hydrochloric acid, followed by thorough washing with water.

Insect Bite Lotion.—*L. D.*—Below is a formula for a preparation suitable for applying to insect bites:—

a. Menthol	1 gm.
b. Thymol	1 gm.
c. Nipabutyl pure	1 gm.
d. Phenoxetol	4 gm.
e. Alcohol	50 gm.
f. Ammonia water, 10 per cent.	to 100 gm.

Dissolve (a), (b), (c) in alcohol, add (d), and finally (f) to volume.

D.M.P. Cream.—*E. C. C.*—A dimethylphthalate insect-repellent cream with a vanishing cream type base may be made to the following formula:—

Lanette wax SX	5.0 gm.
Triethanolamine	4.5 mils
Acid oleic	15.0 mils
Dimethylphthalate	50.0 mils
Water	50.0 mils

Melt together the wax and oleic acid and add the D.M.P. Stir in slowly the triethanolamine and water at about the same temperature and continue stirring until cold.

Dealing with Liver Fluke.—*R. van D.*—Preventive measures against liver fluke in sheep and cattle recommended by the Ministry of Agriculture and Fisheries include: (1) Treating with copper sulphate in June and again in July or August the areas of pasture in which mud-snails are found to be living, and (2) draining wet areas of pasture. For spreading the copper sulphate, 1 lb. finely powdered bluestone is mixed with four parts dry sand and applied at the rate of 28 lb. bluestone to the acre. Infected sheep are given carbon tetrachloride and infected cattle hexachloroethane, under supervision.

Freezing of Fruit.—*L. D. R.*—The preservative effect of freezing fruits and vegetables is due partly to immobilising the water content as a medium for chemical change, partly to depressing the rate of chemical change (which is approximately halved for each decrease in temperature of 10° C.), and partly to other factors such as suppressing the growth of yeasts, moulds and bacteria (growth being suspended below about −5° to −7° C.). Oxidation and enzymic activity in foods are usually negligible at about −20° C., at which temperature fruit and vegetables are frequently stored in commerce.

Jelly Base.—*R. L. O.*—A base for preparing tannic acid jelly may be made to the following formula:—

Pectin	5 gm.
Glycerin	12 gm.
Sulfadiazine	5 gm.
Tannic acid	10 gm.
Nipagin M	0.2 gm.
Phenoxetol	1.6 gm.
Sodium sulphite	0.2 gm.
Ringer's solution	66 gm.

Mix well the first three ingredients to a smooth paste. Dissolve the remainder in boiling Ringer's solution and add to the pectin paste, stirring well until the mixture cools to room temperature.

Coal Briquettes.—*J. M. W. L.*—The ingredients required in coal briquettes are coal dust and any binding material easily procured. Clay may be used, but it has the fault of caking in a hot fire and rendering the ash difficult to remove. The usual process is to mix thoroughly with the coal dust a certain proportion of resin, pitch and crude naphtha in steam-jacketed pans, and to pass the mixture through a door at the bottom of the pan on to a press where it is pressed into blocks of a suitable size. If clay is used as the binding material, the appearance of the product is much improved by dipping the blocks into melted resin. Little skill is required once the correct proportions have been ascertained by experiment.

A type of briquette that has become popular in recent years consists only of coal dust and Portland cement. The mixture (in a proportion understood to be about 1 in 6 or 1 in 8) is moistened and packed into wooden moulds of the desired size.

Household Disinfectant.—*J. W.*—Below are alternative formulas for household disinfectant:—

I

Potassium hydroxide	42 gm.
Water	250 mils

Dissolve and add—

Linseed oil	180 gm.

Heat the mixture until saponification is complete, then add—

Resin	10 gm.
Potassium hydroxide	1 gm.
Cresol	30 gm.
Water to	1000 mils

II

Coal-tar distillate (of s.g. exceeding 1.00)	100
Resin	85
Caustic soda or potash (30° B.) ...	60
Vegetable oil	20

Liquefy the resin, add the coal-tar distillate, and when thoroughly mixed, and while the mixture is still warm, add the caustic soda and lastly the oil.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Time to Think ?

SIR,—As a new epoch in the history of chemists is now approaching, may I pertly ask "Are we prepared for it?" England has "bowed to the inevitable," though Scotland still holds out. In both countries the question of remuneration has been left to the last. Can we not even now cry halt?

SCOTTISH CHEMIST.

A Secretary's Appeal

SIR,—May I, through your columns, in the name of myself and a very hard-working and conscientious committee, appeal for more general support, from both senior and junior members, at the many functions, trips, and educational lectures that are arranged for them by the junior section of the Blackpool Branch of the Pharmaceutical Society.

ROY STUTTARD.

Pharmaceutical Committee Elections

SIR,—The N.P.U. Branches in the County of Essex recommend that, in view of the importance of territorial representation, N.P.U. members should support nine of the following candidates in the forthcoming election: Messrs. C. F. Bayley, Frinton-on-Sea; B. W. Beard, Walthamstow; L. Bellamy, Chelmsford; W. H. Cloud, Barking; E. E. Farrant, Romford; S. A. Hampton, Brentwood; P. G. Jordan, Grays; E. H. Slater, Epping; C. Stoffer, Witham; and W. H. Whyte, Colchester. I write on behalf of the secretaries of Chelmsford and Essex County, Colchester and East Essex, Ilford, Barking and West Essex, Romford and District, and Walthamstow and District Branches of the N.P.U.

Romford. J. ROBERTSON.

A Disclaimer

SIR,—During the debate on the Committee Stage of the Finance (No. 2) Bill on June 2, when amendments designed to exempt from purchase tax all drugs and medicines were under discussion, Mr. Orbach, as reported in Hansard and elsewhere, referred to a memorandum which, he stated, was issued by the Proprietary Articles Trade Association. He quoted extracts from the memorandum. As the remarks made by Mr. Orbach, in the course of his contribution to the debate, may have misled some of those who subsequently read them in the report, I wish to point out that the Proprietary Articles Trade Association (the P.A.T.A.) has not issued any memorandum whatsoever regarding purchase tax on medicines, nor taken any active part in propaganda relating to the subject.

London, W.C.1. H. E. CHAPMAN, *Secretary.*

AROMATIC COMPOUND MANUFACTURERS

THE annual meeting of the British Aromatic Compound Manufacturers' Association was held in London on June 3, Mr. Cecil Bush (chairman) presiding. Referring to negotiations between the Board of Trade, the Association and the Toilet Preparations and Perfumery Manufacturers' Federation on the matching of British-produced compounds and synthetics with imported materials, the chairman said some progress had been made and the Board of Trade proposed to set up a panel to adjudicate, where necessary, on the various matches submitted. The provision of the imported aromatics scheme that originally placed a 75 per cent. re-export condition on all imported aromatic materials no longer applied to imports from France and Holland, which could now be freely used on the home market. Special attention had been given during the year to the working of the essential oils control. All remaining controlled essential oils should be freed so soon as circumstances permitted. He thanked Mr. F. A. Rowsell for his work as the Association's representative on the Essential Oils Advisory Committee. The Aromatics Joint Committee, originally set up to administer the importation and distribution of aromatic materials from France during the immediate post-war period, had been wound up, and payment of a final rebate would shortly be made to users. The following were re-elected: *Chairman,* Mr. Cecil Bush; *Vice-chairman,* Mr. F. A. Rowsell; *Executive Committee,* Messrs. R. F. Gillham, W. Naumann, J. A. Pentecost, A. J. Plastow and W. C. Slater.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

28 Essex Street, W.C.2, June 23

REPORTS to hand this week indicate there has been little or no improvement in business with the majority of the markets continuing sluggish. The turnover is still mostly restricted to limited quantities of commodities required for immediate consumption. The labour dispute at the London docks has had no direct effect on the markets. The unloading of a considerable tonnage of goods is, of course, held up, and, with but one or two exceptions, it has not been possible to obtain delivery of goods from dock warehouses. The home trade demand for PHARMACEUTICAL CHEMICALS has been no more than routine while the volume of export business is being fairly well maintained. Values of these manufactured products are generally steady. The CRUDE DRUGS markets are featureless. Business in most products has again been disappointing with a marked lack of good orders from manufacturing consumers. Spot stocks are adequate with holders' quotations showing little change on the week. New-crop SENEGA is being offered from the source but little interest is shown. African GINGER is dearer and fully steady. Recent arrivals of rough round RHUBARB have been of better quality but there is still some wormy material on the market. Business in ESSENTIAL OILS has remained quiet with values steady.

The Olive Oil Importers' Association will shortly be allocating 500 tons of OLIVE OIL (250 tons for the chemist trade and 250 tons for the grocery trade), and a further 500 tons will be allocated in approximately one month's time. The price which will be charged by members of the importers' association to wholesalers will be 29s. 8d. per gallon of 9 lb. instead of 51s. per gallon at present in force. The price to be charged by wholesalers will be communicated as soon as possible.

U.S. Drug and Chemical Report

New York, June 18

THE BOTANICAL DRUG market has been generally weak with competition bringing lower quotations for such products as ARNICA FLOWERS at 85 to 90 cents per lb., LYCOPODIUM, at $2.00 to $2.50 per lb., and BLACKHAW ROOT BARK at 75 cents per lb. CARNAUBA WAX again declined slightly, No. 1 yellow becoming available at $1.06 per lb. against a minimum offering price of $1.07 previously. On the other hand, IPECACUANHA was strong and it is stated that any increase in inquiry for SENEGA, PAPAIN or PSYLLIUM would probably result in a reversal of the present tendency. No improvement in the poor demand for ESSENTIAL OILS has been noted over the past week and further price reductions have been noted. PATCHOULI is reported to have reached its post-war low at $7.50 per lb. compared with $10.50 per lb. a week earlier while smaller declines were also noted in CAMPHOR, JUNIPER BERRY, SANDALWOOD and CASSIA. Bourbon VETIVERT was also sharply down at $18.00 per lb. on the inside compared with $20.00 previously.

The recent sharp upward movement of MENTHOL prices has not continued but the higher levels reported last week have been maintained around $10 per lb. Demand remains limited. The Journal of Commerce reports that production of synthetic GLYCERIN on a commercial scale is expected to get under way next month. It is understood that consumers who have contracted for the major portion of the material have been notified to the effect that production will start on or about July 6. The plant, located at Houston, Texas, has an estimated capacity of between 30 and 36 million lb. a year. It is pointed out, however, that this produce is unlikely to have any material influence on the market.

Pharmaceutical Chemicals

AMMONIUM CHLORIDE, B.P. — Makers quote 1-cwt. lots at 9½d. per lb.

ASPIRIN.—Makers' quotation for POWDER is 3s. 5½d. per lb. in 10-cwt. lots and 3s. 7d. per lb. in 1-cwt. lots. Scheduled rates per lb. for quantities of 28 lb. and under 1 cwt. are: 4s. 6d. (1-lb. containers); 4s. 5d. (2-lb.); 4s. 4½d. (4-lb.); 4s. 3½d. (7-lb.); 4s. 3d. (14-lb.); 4s. 2d. (28-lb.). Net one month. Rates per 1,000 for bulk supplies of TABLETS are: Under 5,000, 3s. 9d.; 5,000 and over, 3s. 7d.; 10,000, 3s. 6d.; 25,000, 3s. 4d.; 50,000, 3s. 3d.; 100,000, 3s. 2d.; 250,000, 3s. 1½d.; 500,000, 3s. 1d.; 1,000,000, 3s.

BARBITONE.—Base and soluble are available at prices from 43s. 6d. to 46s. per lb.

BENZYL BENZOATE. — B.P. quality is quoted from 4s. 6d. to 5s. per lb., according to quantity; perfumers' quality, 5s. to 5s. 6d. per lb.

BISMUTH SALTS.—Makers' prices per lb. for 1-cwt. lots are as follows: CARBONATE, 14s. 10d.; CITRATE, 12s. 6d.; SUBNITRATE, SALICYLATE, 12s. 9d.; SUBGALLATE, 15s. 9d.

BROMIDES.—Supplies are reported to be rather better. Current resellers' rates per lb. for POTASSIUM, in quantities of 28 lb. to 1 cwt. (containers in brackets), are as follows: 3s. 5½d. (1-lb.), 3s. 4½d. (2-lb.), 3s. 4d. (4-lb.), 3s. 3d. (7-lb.), 3s. 2½d. (14-lb.), 3s. 1½d. (28-lb.). In bulk, makers quote 1 cwt. at 2s. 7d. per lb. and 5 cwt.

at 2s. 6d. Powder is 2d. per lb. extra. SODIUM is 1½d. per lb. less than above rates; AMMONIUM is ½d. per lb. more than above rates. Terms are net; carriage paid on 1-cwt. lots in U.K.

CHLORAL HYDRATE.—Current rates per lb., for the home trade, are as follows: 1-cwt. lots, 4s.; 56-lb., 4s. 2d.; 28-lb., 4s. 4d.

CITRATES.—Makers' rates from May 26 are: POTASSIUM, 5-cwt. lots, 2s. 10½d. per lb.; 1-cwt., 2s. 11½d.; scheduled prices for quantities of 28 lb. to 1 cwt. per lb. are (containers in brackets): 3s. 9½d. (1-lb.); 3s. 8d. (4-lb.); 3s. 7d. (7-lb.); 3s. 6½d. (14-lb.); 3s. 5½d. (28-lb.); IRON AND AMMONIUM CITRATE, B.P., 7d. per lb. more; SODIUM, B.P., 3d. per lb. less; powder, 1d. per lb. extra.

COCAINE.—Rates per oz. are as follows: ALKALOID, CITRATE, and SALICYLATE, bottles, ⅛-oz., 63s.; ¼-oz., 59s. 6d.; ½-oz., 56s. 6d.; 1-oz., 55s. 6d.; 4-oz., 55s.; 8-oz., 54s. 3d.; 16-oz., 53s. 9d.; tins, 25-oz., 53s. HYDROCHLORIDE, NITRATE and SULPHATE, bottles, ⅛-oz., 56s.; ¼-oz., 52s. 6d.; ½-oz., 50s.; 1 oz., 48s. 6d.; 4-oz., 48s.; 8-oz., 47s. 3d.; 16-oz., 46s. 9d.; tins, 25-oz., 46s. The quotations include cost of containers.

CREOSOTE.—B.P. quality, ex beechwood, quoted at from 7s. per lb., upwards.

CRESOL.—Controlled price of B.P. quality from distillers is 4s. 6d. per gall., ex sellers' premises.

GLYCEROPHOSPHATES. — Makers' list prices per lb. are as follows: CALCIUM SOLUBLE, 10s. 6d.; IRON SCALE, 11s. 9d.; ACID, 20 per cent. (B.P.C.), 8s. 3d.; MAGNESIUM (INSOLUBLE), 10s.; MAGNESIUM (SOLUBLE), 19s. 3d.; MANGANESE, 24s. 3d.; POTASSIUM, 50 per cent., 5s. 11d.; 75 per cent., 7s. 9d.; SODIUM, 10s. 9d.; 50 per cent., 4s. 7d.; 75 per cent., 5s. 8d. Quantities of 7 lb., 6d. per lb. less than above rates; other quantities in proportion.

HEXAMINE.—B.P. is quoted at from 1s. 8d. to 2s. per lb., as to quantity.

IODIDES.—Prices (per lb.) of minor iodides are as follows: AMMONIUM, B.P.C., 7-lb., 15s. 9d., smalls, 16s. 3d.; ARSENIC (triodide), B.P., 28s. 6d.; CADMIUM, B.P.C., 22s.; CALCIUM, B.P.C., 19s.; ETHYL, 28s.; IRON, B.P.C., 14s.; LEAD, B.P.C., powder, 18s.; LITHIUM, B.P.C., 20s. 3d.; STRONTIUM, B.P.C., 18s. 6d.; ZINC, B.P.C., 19s. 3d.; MERCURIC, B.P., 7-lb., 14s. 3d., smalls, 14s. 9d.; MERCUROUS, B.P.C., green or yellow, 7-lb., 18s. 6d.; smalls, 19s.

MANDELIC ACID.—Current prices per lb. are: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt., in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

METOL.—Rates for bulk quantities are as follows: 10-cwt., 19s.; 5-cwt., 19s. 6d.; 1-cwt., 20s.; 28-lb., 21s.; 14-lb., 23s.; 7-lb., 24s. per lb. Carriage paid in the United Kingdom.

PHENACETIN.—Quotations are at from 5s. to 6s. per lb., as to quantity.

PHENOBARBITONE.—Manufacturers' prices are 40s. 6d. per lb. for 7-lb. lots and 39s. for 28-lb. lots with prices for other quantities in proportion. The corresponding rates for the SODIUM SALT are 43s. and 41s. 6d.

PIPERAZINE.—Current prices are from 4s. 6d. per oz., according to quantity.

POTASSIUM PERMANGANATE. — Makers' rates are as follows: B.P. (in 1-cwt. drums), 1 cwt. and over, 1s. 8½d. per lb.; 3 cwt. and over, 1s. 8d. TECHNICAL (in 1-cwt. drums), 1 cwt. and over, 166s. 3d. per cwt.; 3 cwt. and over, 161s. 9d.; 5 cwt. and over, 159s. 3d.; 1 ton and over, 156s. 9d.; 4 tons and over, 154s. 3d. TECHNICAL (in 5-cwt. drums), 5 cwt. and over, 156s. 9d. per cwt.; 1 ton and over, 154s. 3d.; 4 tons and over, 152s. Terms, net, carriage paid to nearest station (or port of departure for Northern Ireland), containers extra and returnable.

PYROGALLIC ACID. — Quotations for CRYSTALS are: 1 cwt., 18s. 6d. per lb.; 56 lb., 19s.; 28 lb., 20s. RESUBLIMED is 22s. 3d. per lb. in 1-cwt. lots; 56-lb., 22s. 9d.; other quantities in proportion.

PYROGALLOL.—Current rates are as follows: 1 cwt., 21s.; 56 lb., 21s. 6d.; 28 lb., 22s. 6d. per lb. Resublimed, 4s. per lb. above these rates. Prices are net.

SALOL, B.P.C.—Current quotations for quantities of 28 lb. to 1 cwt. are from 9s. to 9s. 4d. per lb., according to pack. Prices for larger quantities are around 7s. 6d. to 8s. per lb.

SANTONIN.—Prices are unchanged; 5 kilos. £44 per kilo; less than 5 kilos, £45: 1 kilo, £46; half-kilo, £47; quarter-kilo, £48 per kilo; carriage paid in U.K.

SULPHANILAMIDE.—Prices are steady as follows: 5-cwt., 6s. 3d.; 1-cwt., 6s. 6d.; 28-lb., 6s. 10d.; 14-lb., 7s.; 7-lb., 7s. 9d. per lb., net; packing extra.

SULPHONAL.—Prices are from 44s. to 53s. per lb.

TANNIC ACID.—Supplies are fairly free. B.P. levis is from 8s. 9d. per lb.; ether soluble, from 9s. per lb.

THEOBROMINE.—Makers' prices (per lb.) are: ALKALOID, from 37s. 6d. to 41s. 6d., according to quantity; CALCIUM SALICYLATE, from 21s. 3d. to 25s. 3d.; SODIUM BENZOATE, 23s. 9d. to 26s. 9d.; SODIUM SALICYLATE, from 21s. 3d. to 25s. 3d.

THYMOL, B.P.—Supplies continue short. Nominal prices from maker are from 17s. 9d. to 18s. 6d. per lb.; 20s. per lb. asked for small quantities.

Crude Drugs

ACONITE.—Spot supplies of Indian root quoted at 300s. per cwt.

AGAR.—No. 1 quality strip, spot, is quiet; quoted at 19s. to 19s. 3d. per lb., with lower grades at 17s. 9d. to 18s. 6d.

ALOES.—Business remains dull. Cape, spot, is steady at 145s.; shipment, about 138s., c.i.f. Curaçao, in boxes, 210s. to 230s., spot; forward, 200s., c.i.f. Socotrine, spot, 160s. to 190s. per cwt.

ANTIMONY.—Prices are steady. 99.6 per cent., regulus, £190 per ton, delivered; 99 per cent, £180; Crude, 70 per cent. crude, £150.

ARECA NUTS. — The Ceylon product is quoted on spot at about 67s. 6d. per cwt.

ASAFETIDA. — Some Persian block is available at £22 10s. to £24 per cwt., spot, with lower quality (Indian) at £15.

BALSAMS.—*Canada* continues nominal at 21s. 6d., spot. Pará *Copaiba*, soluble, is valued at 5s. per lb., spot. *Peru*, San Salvador, 5s. 6d. to 5s. 9d., duty paid. *Tolu*, 18s. 6d. per lb., spot.

BAY LEAVES.—Dealers' prices are from 11d. to 1s. per lb., duty paid.

BENZOIN.—Limited inquiry, prices unchanged. Sumatra block, spot, from £15 to £17 per cwt., as to quality.

BISMUTH.—Metal is unchanged at 11s. per lb. for quantities of 5 cwt.

BUCHU.—Market remains dull. New-crop, short rounds, spot, 4s. per lb.; shipment, 3s. 8d., c.i.f.; ovals, old-crop, from 3s. 9d., spot.

CAMPHOR.—Market continues dull and quoted unchanged. Chinese tablets, 9s. 9d. to 10s. 9d. per lb., duty paid; refined powder (B.P.), 8s. 9d. to 9s. 3d., with B.B. grade, 8s. 6d.; crude powder, 7s. 6d.

CASCARA SAGRADA.—Only a small inquiry reported. Spot, 262s. 6d. to 270s., as to age. Forward the quotation is steady at 215s., duty paid, for 1948 bark.

CHILLIES. — Market continues quiet. Mombasa, 115s. per cwt., spot; shipment, June-July, 95s., c.i.f.; Sierra Leone, 115s., nominal; Nigerian, 90s.

CLOVES.—Zanzibar is offered at 9d. per lb.; June-July, 9½d., c.i.f. Madagascar, 5¾d., c.i.f.

ERGOT.—Market dull. Portuguese, 4s. to 4s. 1½d. per lb., spot; new crop, shipment, 3s. 10d. to 4s., c.i.f.

GINGER.—Values are steady at the better prices quoted. African, spot, 74s. to 75s.; new-crop, July-August, 72s. 6d., c.i.f. Jamaican, No. 1, 115s.; No. 2, 112s. 6d. and No. 3, 110s. per cwt.

IPECACUANHA.—Market continues quiet. Nicaraguan, 26s. and Colombian, 24s. per lb., spot, quoted by dealers.

MACE.—West-Indian blade, on the spot, is quoted at 7s. 3d.; pickings, 4s. 6d. to 5s. 6d. per lb., according to quality.

MENTHOL.—The spot market continues very quiet. Brazilian shipment market reported firm. Brazilian, spot, 46s. to 50s. per lb., duty paid, as to seller. Shipment, July-August, 48s. 3d., c.i.f.

MERCURY.—Spot quotation continues unchanged at £15 per flask, ex warehouse; for shipment, £14, c.i.f. U.K.

MYRRH.—Aden sorts, £13 to £14 per cwt.; siftings, £8 to £10 per cwt., spot.

NUTMEG.—West Indian 80's are quoted at 3s. 4d.; sound unassorted, 2s. 11d.; wormy and broken, 1s. 8d.

NUX VOMICA.—Madras, on spot, is steady at 40s. to 42s. 6d. per cwt.; Mangalore, 40s.; Cochin, 42s. 6d. to 45s., spot.

OLIBANUM.—Fair to good drop, from 200s.; pea size, 200s.; good garblings, 160s.; seeds, 170s.; siftings, 95s. per cwt.

ORANGE PEEL.—Spanish quarters, 1s. 3d. to 1s. 6d., spot; sweet ribbon is quoted at 1s. 9d.; bitter ribbon, 1s. 3d. per lb., in Liverpool.

PODOPHYLLUM. — American (*peltatum*) 3s. 3d. per lb., duty paid. Indian, 340s. per cwt., spot.

RHUBARB.—Small business only reported. Spot, Chinese rough-round high-dried, from 4s. 6d. to 5s., according to quality.

SANDARAC.—Dealers' spot prices continue at 5s. 2d. per lb.; shipment, 4s. 3d., c.i.f.

SARSAPARILLA. — Jamaican, native red, spot, quoted at 2s. 4d. per lb.; 2s. 3d., c.i.f.

SEEDS. — ANISE. — Cyprus quoted at 1s. 5d. per lb.; Turkish, 1s. 5½d. per lb., duty paid. CARAWAY.—Dutch, quiet, sellers on spot at 11d. per lb., duty paid, London. CELERY.—Indian offered at 1s. 3d. per lb., spot, London or Liverpool. CORIANDER.—Argentine offered at 44s. per cwt., duty paid. Splits are slow of sale at 32s. 6d. per cwt., duty paid, London or Liverpool. CUMIN.—Indian is offered at 212s. 6d. per cwt., spot, Liverpool. Cyprus, 210s. per cwt., landed, London. DILL.—Indian is unchanged at 47s. 6d. per cwt., London. 45s. per cwt. quoted in Liverpool. FENNEL.—Indian is 72s. 6d. per cwt., spot, London. Sellers of Liverpool stocks at 70s. to 71s. per cwt. FENUGREEK.—Indian quiet at 47s. 6d. per cwt., spot, London, and 45s. per cwt., now quoted in Liverpool.

SENEGA.—Only a small routine trade being done. Spot, 11s. 6d. per lb. New crop, 9s., c.i.f.

SENNA.—Steady. Tinnevelly leaves on the spot are selling as follows: No. 1, 9d. to 1s. per lb.; No. 2, 8d. to 9d.; No. 3, 6d.; No. 4, 5½d. to 6d. Tinnevelly pods, hand-picked, 10d. to 1s. 4d.; manufacturing, 5½d. to 6d. Alexandrian pods, hand-picked, spot, from 4s. 9d. to 5s. 9d., accord-

ing to quality; medium, 2s. 9d.; manufacturing from 1s. to 1s. 9d. per lb., Alexandrian leaves, 1s. 2d. per lb., f.a.q.

SHELLAC.—Market is steadier at the lower values recorded. Spot quotations, ex warehouse, London, F.O.T.N. pure, 325s.; F.O. Standard 1, 335s.; fine orange, 350s. to 390s. per cwt.

SQUILL.—Italian white, 63s. to 65s. per cwt., spot, according to quality and seller.

STROPHANTHUS.—100 per cent. Kombé is quoted at 12s. 6d. per lb., spot.

STYRAX.—Supplies on the spot are offered at 7s. 9d. per lb., duty paid.

TAMARINDS. — Barbados is quoted at 52s. 6d. per cwt., duty paid.

TONKA BEANS.—Quiet. Frosted Pará is quoted at 5s. per lb., spot.

TRAGACANTH.—Only a limited business in modest quantities reported with quotations generally unchanged. Selected white ribbon, spot, £100 per cwt.; other white grades, from £55 to £97; pale leaf, £35 to £50; amber, £23 to £33; red, £14 to £20; hoggy, £5 to £11.

TURMERIC.—Market quiet. Madras finger, spot, 110s. per cwt.; new crop, shipment, 90s., c.i.f.

WAXES.—BEES'.—Dar-es-Salaam, spot, 350s. per cwt.; shipment, 315s., c.i.f. Lindi, spot, 340s. per cwt.; forward, 305s., c.i.f. Benguela, 350s. per cwt., duty paid; in bond, 315s.; shipment, 305s., c.i.f. CANDELILLA.—Spot, 390s. per cwt.; shipment, 380s., c.i.f. CARNAUBA.—Prime yellow, 660s. per cwt.; forward, 620s., c.i.f. Fatty grey, 420s. per cwt., spot; afloat, 415s., c.i.f., shipment, 375s., c.i.f. Chalky grey, 415s. per cwt., spot; shipment, 365s., c.i.f. MONTAN.—Reibeck, 300s. per cwt., spot, and Czechoslovak, crude, 270s.

Essential and Expressed Oils

ANISE.—Chinese star, in drums, 5s. 6d. per lb.; 5s. 6d., c.i.f. Tins in cases, 5s. 9d. spot; shipment, 5s. 7d., c.i.f.

APRICOT KERNEL.—Dealers are quoting 7s. to 7s. 3d. per lb., as to quantity.

CAMPHOR.—White oil on the spot is quoted at 2s. 9d. per lb., duty paid.

CARAWAY.—English-distilled is offering at 37s. to 40s.; imported oil, 28s. to 30s. per lb.

GARLIC.—English-distilled oil is available at 70s. per oz.

GERANIUM.—Bourbon is offering at prices from 52s. 6d. to 62s. 6d. per lb., as to grade. Market is dull.

GINGER.—Prices are from 70s. and upwards per lb., according to grade.

GUAIACWOOD.—Spot supplies are quoted at 18s. to 20s. per lb.

LAVENDER.—French, 38-40 per cent., is quoted at 23s. to 25s., spot; 40-42 per cent., 25s. to 27s. 6d. Spanish (spike) is steady at 9s. to 11s. per lb., spot.

LEMONGRASS. — Quoted at 6s. 6d. to 7s., spot, as to holder and quantity; forward, 5s. 9d., c.i.f.

LIME.—West Indian is quoted at 28s. to 30s. per lb., as to holder and quantity.

NUTMEG.—English-distilled oil is priced at from 39s. to 40s. per lb.

OLIVE. — The Importers Association notify substantial reduction in prices and the allocation of oil (p. 842).

ORIGANUM.—Quotations are from 18s. to 20s. per lb., spot, according to holder.

PALMAROSA.—Supplies on spot offered at 35s. per lb.; forward, 30s., c.i.f.

PATCHOULI.—Seychelles, spot, 47s. 6d. to 57s. 6d. per lb., as to quantity.

PENNYROYAL.—Spot offers from 18s. 6d. to 21s. per lb., according to grade.

PEPPER.—English-distilled, 160s. per lb.

PEPPERMINT.—English-distilled "Mitcham," is quoted at 180s. to 225s. per lb.

PIMENTO BERRY.—English-distilled oil quoted at 50s. to 60s. per lb. and upwards, as to quantity and grade.

PINE.—*Pumilionis* is quoted at 18s. to 20s. per lb., spot; *sylvestris*, 12s. 6d.

PINE NEEDLE.—Spot supplies are offered at 19s. to 21s. per lb., for first-grade oil.

ROSEMARY.—Spanish is offered at 7s. 6d. to 10s. per lb., as to quantity and quality.

SANDALWOOD.—English-distilled, in limited supply, is quoted at 75s. to 90s. per lb.

TEASEED.—Quotations are at 60s. per gall. of 9 lb. In fair demand.

THYME. — Red oil (40-42 per cent. phenols), 13s. 6d. to 16s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Quotations are from 8s. to 8s. 6d. per lb., according to quantity.

YLANG YLANG.—Bourbon is quoted at 65s. to 100s. per lb., as to grade and seller.

World Mineral Industries

No. 3—Barium

THE following table shows principal sources of barium minerals and output in recent years. The figures are in long tons.

PRODUCING COUNTRY	1938	1941	1944
Great Britain—			
barytes, unground	47,568	64,150	57,688
witherite, unground	9,914	9,709	10,839
France	27,310	4,424	9,424
Germany—			
Baden	35,732	40,249	(a)
Prussia	395,401	263,078	250,000
Greece	34,150	(a)	(a)
Italy	47,408	25,620	(a)
United States ..	299,494	431,599	459,050

(a) Information not available.

TRADE MARKS

(*From "The Trade Marks Journal," June 2*)

"PAX"; for medicated confectionery (5). By Rowntree & Co., Ltd., York. 657,002 (Associated).

"CELLOLITE"; for bandages and surgical plasters, etc., all being goods made wholly or principally of cellulose material (5). By T. J. Smith & Nephew, Ltd., Hull. B657,273 (Associated).

"PACSAN"; for medicated toilet paper (5). By Santor Paper, Ltd., London, N.W.1. 657,638 (Associated).

"RENTAN"; for preparations for the destruction of rodents (5). By Rentokil, Ltd., London, S.W.9. B657,753 (Associated).

"TALBA"; for sanitary towels (5). By Sanford Manufacturing & Trading Co., Dudley, Worcs. 659,180.

"OPRIN"; for medicated tablets (5). By the Maxilin Marketing Co., Ltd., Bolton, Lancs. 660,136.

"VETOPHEN"; for medicated tablets for human use (5). By Laxvita, Ltd., London, S.W.1. 660,289.

"LAXOTONE"; for laxatives in tablet form (5). By Anti-bi-San, Ltd., London, E.C.2. 660,308.

"DELTAGENA"; for antiseptics and disinfectants, in liquid form (5). By New Hygiene, Ltd., London, N.7. 659,190.

"PANTAL"; for lenses (9). By Taylor, Taylor & Hobson, Ltd., Leicester. 660,186.

"CLARETEX"; for combs, toilet sponges, brushes and powder puffs (21). By K. A. Thiel, Ltd., Brighton 1, Sussex. 647,167.

"LICOS"; for cough mixture for human use (5). By John H. Smith & Co., Newark-on-Trent. 645,231.

(*From "The Trade Marks Journal," June 9*)

"FLUROPAN"; for photographic chemicals and sensitised materials (1). By Kodak, Ltd., London, W.C.2. 653,273 (Associated).

"TENAMOL"; for emulsifying agents for ointments or ointment bases (1). By the Geigy Co., Ltd., Manchester, 3. 657,756 (Associated).

"MIGAFAR"; for all goods (1). By Ciba, Ltd., Basle, Switzerland. 659,370 (Associated).

"SOIR DE FETE"; for non-medicated toilet preparations, perfumes, cosmetics and soaps (3). By Parfums Germaine Lecomte, 114 Rue de la Boetie, Paris. 657,227.

"OPTREX" and "FAMEL"; for non-medicated toilet preparations, cosmetics, perfumes and soaps (3); for pharmaceutical preparations, sanitary substances, foods, bandages and plasters, antiseptics and disinfectants, all for export. By Optrex (Overseas), Ltd., London, E.C.4. 654,942-43 and B654,944 (Associated).

"GOLDEN DEW"; for non-medicated toilet preparations, cosmetics, perfumes and soaps (3). By Pin-Up Cold Perm Wave, Ltd., London, E.C.2. B657,614.

"EMBESAL," "EMBAZINE" and "EMBEVIT"; for all goods (5). By May & Baker, Ltd., Dagenham, Essex. 653,561, 659,015 and 659,388 (Associated).

"KETHROSE"; for hair brushes (21). By Kenneth Cecil Rose, Sheffield. 660,649.

"TUMBUK"; for medicated powders for use in the treatment of stomach disorders (5). By Malvern Research Products, Great Malvern, Worcs. 656,330.

"ZOSE"; for medicated digestive tablets (5). By Zems, Ltd., London, N.15. 656,400.

"LENSOL"; for medicated preparations for vaginal use (5). By William Allen, Hove, 4, Sussex. 656,584.

"PASTICILLIN"; for pharmaceutical preparations and substances (5). By H. R. Napp, Ltd., London, W.C.2. 657,515.

"BORILINE"; for pharmaceutical substances (5). By Borax Consolidated, Ltd., London, E.C.4. 657,607.

"MICROTESTONE"; for pharmaceutical preparations; "RAPHONE"; for preparations for killing weeds, and fungicides for use in agriculture (5). By British Schering, Ltd., London, W.1. 657,619 and 659,304 (Associated).

"RODMILL"; for medicines for internal use (5). By Rodmill Chemical Co., Ltd., Liverpool, 3. 657,770.

"DOLPINE"; for disinfectants and germicides containing pine extract (5). By J. Evershed & Son, Ltd., Brighton, 7, Sussex. 658,119 (Associated).

"PENOTRANE"; for insecticides, fungicides and bactericides (5). By Ward, Blenkinsop & Co., Ltd., London, W.1. 658,384.

"KAMNOL"; for pharmaceutical preparations not including disinfectant fluids (5). By John J. Forbes & Son, Perth, Scotland. 658,567.

"FINIMOUSE"; for preparations for the extermination of mice and rats (5). By H. J. Bogena, Schiedam, Holland. B658,585 (Associated).

Device of horseshoe and hand clasping pestle; for all goods (5). By C. R. Harker, Stagg & Morgan, Ltd., London, E.1. 658,607 (Associated).

"WISPS"; for medicinal deodorisers in tablet form for the breath (5). By Johnson Agencies (Proprietaries), Ltd., Horsham, Sussex. 659,264.

"SULPHONATULLE"; for tulle impregnated with an emulsion containing sulphanilamide, for export (5). By Perivale Laboratories, Ltd., London, E.C.4. 659,670.

"TELBAT"; for all goods (5). By Three Crowns Tablet Co., Hull. 659,720.

COMING EVENTS

Items must reach the Editor not later than first post on Wednesday.

Monday, June 28

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, High Street, Dartford, at 8 p.m. Mr. J. T. Marsh (Glaxo Laboratories, Ltd.) on "The Scope of Research on Pharmaceuticals."

Wednesday, June 30

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY. Visit to Hirst, Brooke & Hirst, Ltd., Sheepscar Works, Leeds, 7, meeting at Harrogate Y.M.C.A., Victoria Avenue, at 2.30 p.m. (transport and tea provided).

SHEFFIELD NATIONAL HEALTH INSURANCE CONTRACTORS, Metallurgical Club, 198 West Street, Sheffield, at 8 p.m. Report on June 17 conference of Pharmaceutical Committee representatives.

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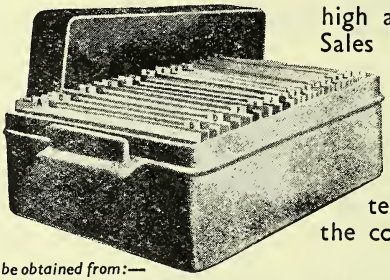

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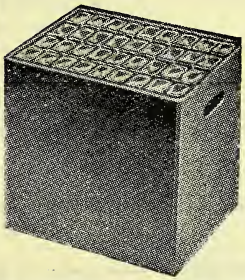

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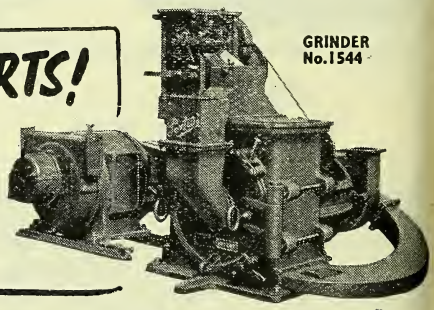

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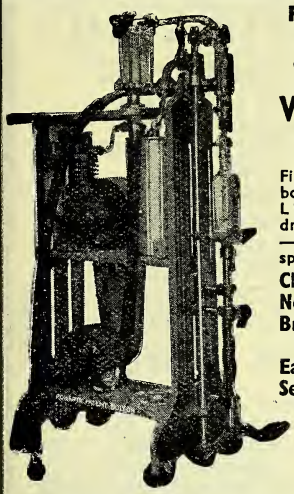

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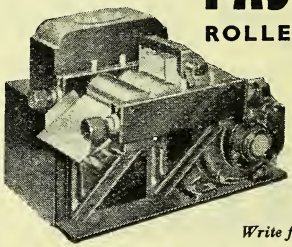

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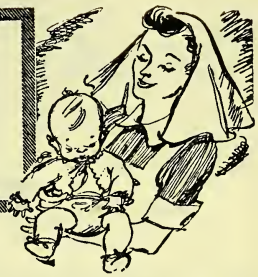

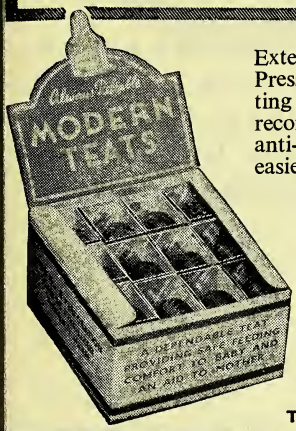

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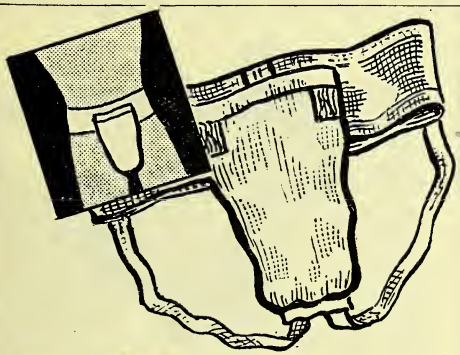

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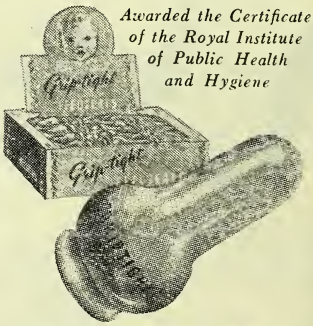

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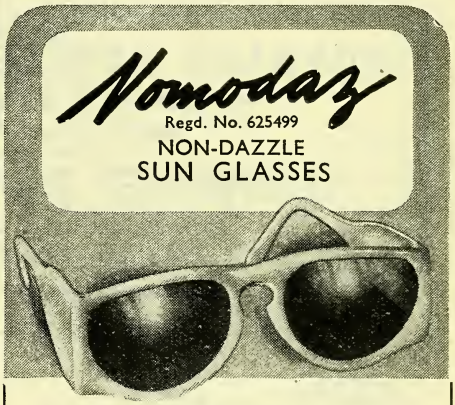

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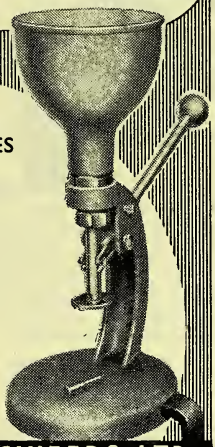

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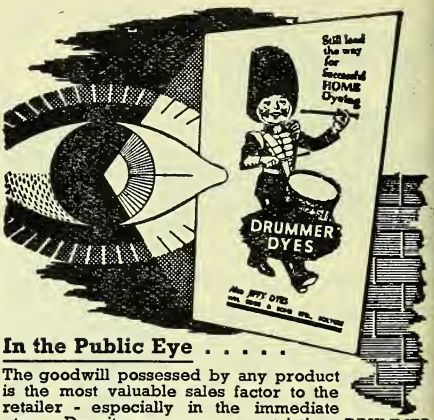

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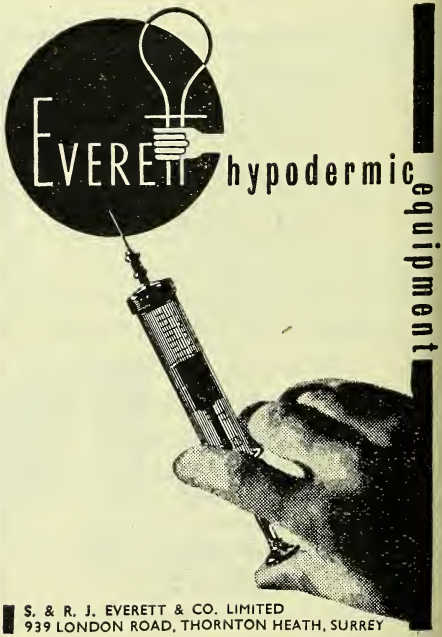


S. & R. J. EVERETT & CO. LIMITED
939 LONDON ROAD, THORNTON HEATH, SURREY

SPECIMEN ADVERTISEMENTS BEING USED IN THE NATIONAL PRESS

There are no FLIES on

DiDiT

IT KILLS THEM!

DiDiT Spray kills immediately and prevents further invasion. Buy DiDiT to-day

Alone I DiDiT!

CVS-13

"DiDiT" PREPARATIONS ARE SUBJECT TO 33% DISC. PLUS AN EXTRA 10%

RODMILL CHEMICAL Co. Ltd. LIVERPOOL 3

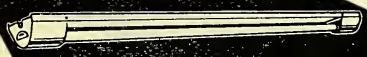
DON'T GAMBLE WITH SIGHT – use

SIERAY

MADE IN ENGLAND

FLUORESCENT LIGHTING EQUIPMENT

"The Yardstick of Good Lighting"



F.T.F. 5179

F.T.F. 5148

F.T.F. 5133

IMMEDIATE DELIVERY FROM STOCK

OTHER MODELS AVAILABLE

★WRITE FOR NEW ILLUSTRATED CATALOGUE Nº 987

SIEMENS *for* SATISFACTION

Advt. of SIEMENS ELECTRIC LAMPS AND SUPPLIES LIMITED, 38/39 Upper Thames Street, London, E.C.4

THE HOUSE-PROUD WOMAN'S CHOICE

Once used it sells itself. . 45 years' reputation for high quality

All Leading Wholesalers Stock it

TREECE POLISH Co. Ltd., NOTTINGHAM

SANIPAN

LAVATORY CLEANSER

one of

WALKERS APPROVED PRODUCTS

Supplies available immediately. Order from usual wholesaler. Sells at 1/3 per large screw-top tin (25% retail profit). High quality product backed by national advertising, free sales literature, full colour showcards, display matter, etc.

W. & F. Walker, Ltd., Liverpool

cvs-16

A DELICATE SUBJECT — FOR DELICATE SKINS

The TOTTY-POT

Rubber Ringed for Cushion Comfort

Trade Mark "Totty Pot" Patent-applied for

A NON-CORROSIVE ACID-PROOF HYGIENIC CHILD'S CHAMBER

Detachable ring, easily removed for cleaning purposes

Made of Aluminium

ANODISED IN SOFT PASTEL SHADE

SOLE MANUFACTURERS

J. BILLIG & SONS LTD., ESTABLISHED 1899

BILTIN WORKS, FONTHILL Rd. LONDON N.4.

TELEPHONE: ARCHWAY 2753 & 3858

When they ask for DDT the answer is COOPER'S

COOPER'S FLYSPRAY

MOTH SPRAY

MOTH POWDER

BIN POWDER

HOUSEHOLD INSECTICIDE

Each Cooper product is as effective as Cooper's Flyspray — the household spray that becomes a habit. Each is scientifically formulated for its particular job, and made by the original processors of DDT in this country: the inventors and sole makers of AL 63, used by all branches of the Services throughout the war.

COOPER'S "WALLS THAT KILL FLIES" CAMPAIGN WILL DO IT AGAIN!

Once again "*Walls that kill flies*" is the theme of Cooper's National advertising — because the AMPLE DDT content in Cooper's Flyspray keeps sprayed surfaces fatal for 4-6 weeks to all flies alighting on them. Long-lasting insecticidal action, plus QUICK-KNOCKDOWN and positive kill, wins *and keeps* customers. One sale made ensures a trade !

WRITE FOR 1948 TRADE LIST

Limited quantities of literature and display material are available for Cooper stockists. Order now from your wholesaler or direct :—

DOG PRODUCTS

SPECIALLY FORMULATED INSECTICIDES

PULVEX

SOPEX

KURMANGE

COOPER, McDOUGALL & ROBERTSON LTD., BERKHAMSTED, HERTS

Advertisements for George Bell's Blood Salts for dogs are appearing frequently in the leading national dailies. This will mean more sales and profits for you. Stock and display this selling line. Samples and prices will be sent on request.

GEORGE BELL'S

Blood Salts

ORDER TODAY

Bell & Sons Ltd., 18 Silverdale Works, Liverpool 13

SCP 10

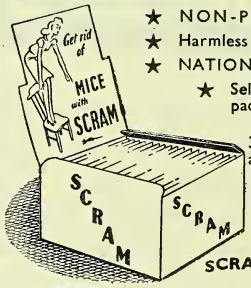
MICE · SCRAM · MICE · SCRAM · MICE

MICE

BRING CUSTOMERS FOR

SCRAM

THE CLEAN METHOD



★ NON-POISONOUS.
★ Harmless to children and pets.
★ NATIONALLY ADVERTISED.
★ Sells more than a million packets a year.

3 doz. 1/- packets in attractive display carton, 25/6.

Order from your wholesaler.

SCRAM PRODUCTS LTD.
London, N.W.5.

P.A.T.A.

2D DYANESE 3D

FADELESS DYES

STOCKING (except Black), **16/- gross**
CURTAIN & COLD WATER, 24/- gross
(Including Black Stocking)

Please order from our Sole Agents

Gt. Britain—W. B. Cartwright, Ltd., Rawdon, Leeds
N. Ireland—T. McMullan & Co. Ltd., 42, Victoria Street, Belfast
Eire—May Roberts (Ireland) Ltd., Grand Canal Quay, Dublin, C.6

FOR BETTER SALES

Sole Makers THOMAS WARD & SONS, LTD.
Wardonia Works Sheffield, 1.

DON'T HELP THE BLACK MARKET TO EMPTY CONTAINERS

Be certain that every empty C.R.S container goes through C.R.S channels only.

Save C.R.S containers from the Black Market by handing them to the C.R.S collector only.

Save by careful opening and handling.

Save by resolutely refusing to give away empty C.R.S containers.

PLAY YOUR PART IN THE NATIONAL ECONOMY DRIVE.
SAVE C.R.S CONTAINERS . . .

LOOK FOR THIS VAN SIGN BEFORE YOU HAND THEM OVER

CONTAINER RECOVERY SERVICE

S.P.D. LIMITED, UNILEVER HOUSE, BLACKFRIARS, LONDON, E.C.4

CRS 49-683

100% GUARANTEED IMPREGNATED

D.D.T. FLYPAPERS are FIRST and STILL FOREMOST

in the war against flies and moths because **Cox's D.D.T. FLYPAPERS** are not just Surface coated they are 100% IMPREGNATED and have a TWO YEAR LIFE.

Due to the acute shortage of paper, may we have your orders early? Send postcard for samples and terms to:

JAMES COX & CO.

Manufacturing Chemists.

378, NORTHOLT RD., S. HARROW, MIDDX.

(Formerly of Northwood). Tel.: BYRON 4326

Here's one advertisement from the new Gillette campaign. It will be appearing 105,908,672 times this year to help your Gillette sales!
Take advantage of this solid backing by putting a Gillette display in your window — now!

Introducing

Gay-Venture

The New **BEAUTY PREPARATIONS**

produced in our own model factory under scientifically controlled conditions. These high-class beauty preparations are already established in the world's markets, and supplies are now available in limited but regular quantities for the home market.

Range Includes:

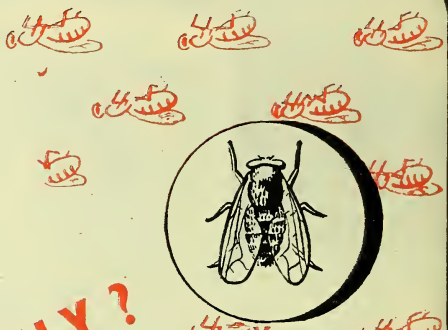
Foundation Cream
Make-up Base
Cleansing Cream
Lipsticks
Face Powders
Etc. Etc.

Enquiries invited

NORTH WESTERN LABORATORIES LTD.

TOWNLEY LODGE, HANSON ST., MIDDLETON, LANCASHIRE

Sole Selling Agents: Gay-Venture Beauty Preparations, Ltd., 78, King Street, Manchester.



More and
more people
are discovering
OZOLINE—
DDT—the

WHO'D BE A FLY?

insecticide
that kills in record
time and is so pleasant to
use! Ensure repeat sales by
stocking and displaying this
fast-killing, fast-selling line.

1/4d.	— 5½ oz. bot.	— 11/3 doz.
2/2d.	— 10 oz. ,,	— 17/4 doz.
3/9d.	— 1 pint tin	— 30/- doz.

OZOLINE-DDT

KILLS THEM OFF!

OZONOL LABORATORIES (1930) LTD. New Wharf Rd., London., N.1. 'Phones: TERminus 3727-6660

for the first time

cream shampoo

is available in a

6d pack

(a very generous one-shampoo)

...of course it's **bandbox**

If you haven't seen the new and very ingenious pack (it's only just coming off the line) please write for full particulars. In any case our representatives are on their way to see you.

Your price 40/- per gross plus purchase tax.

Ashe Laboratories Ltd. 120/122 Victoria St., London, S.W.1

The *only* remedy for a very common complaint

(BAUME DALET PARIS)

B.D

BAUME DALET

made expressly for

BUNIONS

There's only one line you need stock for all your customers who suffer from Bunions.

There's only one you *can* stock, because B.D. Baume Dalet is the only line "Made Expressly for Bunions." Nothing can bring such relief.

If you don't realise how many of your customers have this distressing complaint, just show the B.D. Counter Card for a fortnight and notice the business you do.

From your usual Wholesaler or direct from Sole Distributors for United Kingdom

SPLENDOR LABORATORIES

7c LOWER BELGRAVE STREET, LONDON, S.W.1

AND AT NOTTINGHAM

Over 100 years of plaister making experience behind—

Also

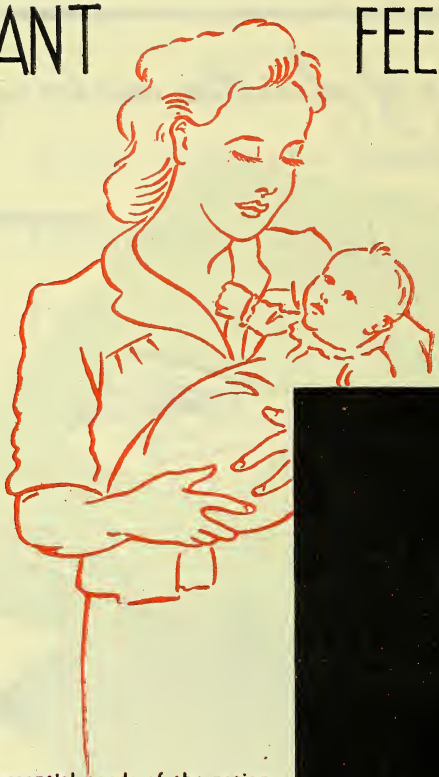
WILMATH
TRADE MARK
EST. 1826

WILMATH REGD.
ADHESIVES AND POROUS
CROCUS CORN COMFORT (REGISTERED DESIGN)

WILLIAM MATHER LTD · DYER STREET · CHESTER RD · MANCHESTER 15
Telephone BLAckfriars 6168 Telegrams "Balsamic Manchester"

INFANT FEEDING BOTTLES

ESSENTIAL FOOD AND DRUG CONTAINERS, MEDICAL FLATS AND PANELS, ETC., ETC.



The essential needs of the nation still demand priority. To those planning ahead we invite enquiries for Glass Container Requirements.

Wholesale & Export Only

London Office
29 Ludgate Hill, E.C.4
Telephone: CITY 7170

LAX & SHAW *Ltd*

REGD. OFFICES: Albert Glass Works, Hunslet, LEEDS, 10
Telephone: 21568 (2 lines) Telegrams: Feeders Phone Leeds

Sunglasses for the 1948 Season

From your usual wholesaler

Wholesale enquiries to

ALFRED FRANKS & BARTLETT CO., LTD.

AUDREY HOUSE, ELY PLACE, LONDON, E.C.1.

"ZEMS"

HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS FOR COUGHS, COLDS, ASTHMA, BRONCHITIS, ETC.

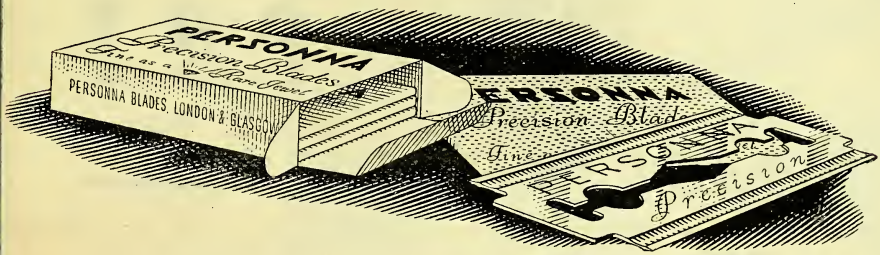
Supplies may be obtained from C.F. Wholesale Houses.

ZEMS, LTD.

718-724 Seven Sisters Road, London, N.15

World's Finest Razor Blade

formerly 6d. retail—now only 3d. each!



SENSATIONAL news! The world's finest razor blade—Personna Precision—is now *halved* in price! Yet quality is not in any way affected.

Increased production and simpler packing have cut costs, and we are pleased to pass on these economies to the public, thus leading the national drive for lower prices. These perfect blades, formerly retailed at 6d. each, are now reduced to only 3d.!

The name Personna is not new to the public. It has carried a regular advertising campaign over the past 15 months. Now, to launch Personna at the new price, this campaign has been greatly increased on a nation-wide scale.

The demand for Personna precision blades will be immediate and ever increasing.

STOCK UP NOW!

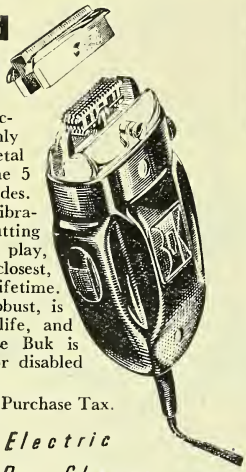
Retail Price 1/3d. per packet of 5 blades (*including tax*)

PERSONNA

PRECISION BLADES

Fine as a rare jewel

The BUK wins . . . on its head



The secret of BUK'S success lies in its head. Only a wafer thinness of metal separates bristles from the 5 tempered, hardened blades. With every move of the vibrator 150 double action cutting edges are brought into play, and the result is the closest, smoothest shave of a lifetime. The BUK, simple and robust, is built for a trouble-free life, and is fully guaranteed. The Buk is specially recommended for disabled and bedridden patients.

Price: **£4 . 17 . 8** inc. Purchase Tax.

BUK *Electric Dry Shaver*

● Guy, Morrison & Co. Ltd., 3 Bayley St., Bedford Square, London, W.C.1. Museum 8744 (4 lines).

The SATISFACTORY Line is that which gives SATISFACTORY profit & SATISFACTION to your customers

"WICK" BRAND

D D T

(Geigy)

FLY-KILLER CARDS

2D EACH

COST 14/- GROSS

Will positively kill all flies, moths, etc. which touch the card.

These cards are impregnated with D D T under pressure.

also 1/- powder (cost 8/- doz), 1/3 liquid (cost 10/- doz)

WICK INDUSTRIES CO. 256 Wick Rd. London, E.9

PROMOL JUNIOR MOTH RINGS

NOW CONTAIN DEADLY D D T

(Geigy)

Twice as efficient — twice as saleable at 8 Rings for 4d.

Attractive red, white and blue display carton.

Enquiries invited.

PROMEDICO PRODUCTS LTD., 21/22 Turle Road London, N.4

HARVEY'S

Horse Remedies

P.A.T.A. Protected Prices

Supplies can be obtained through all Wholesale Houses

HARVEY & CO. (DUBLIN) **LTD.,** DUBLIN

Take up a *SELSDON PEN* Repair Agency—*there's Money in it!*

Repairs Returned in 7 Days ; 12 months' guarantee ; Liberal Profits to Agents

Write for details and showcard to :—

Selsdon Fountain Pen Co. Ltd. (Repair Service)
341, Oxford Street, W1. (*Mayfair 6096*)

for INDIAN BOTANICALS, CRUDE DRUGS, FOREST PRODUCTS, GUMS, MEDICINAL PLANTS, SEEDS, SPICES, ETC. to B.P., U.S.P., B.P.C. & N.F. Standards.

Export Enquiries to :

THE INDIGENOUS MANUFACTURES & PRODUCE (Sales) CO.

160 Govindappa Naick Street, Madras

Cables: Dandelions

Industria Self Adhesive Tape can now be printed to your specification in small quantities. Write to-day for technical advice and sample materials.

★

Available in Cloth or Cellulose

★

INDUSTRIAL TAPES LIMITED

92-94 NEWMAN STREET, LONDON, W.1 - MUSEUM 4215-6-7

14 *Rathbone*

SELL MORE

SEMO

TRADE MARK

CLOTHES WASHING POWDER

because

lathers so!

SEMO is the new, *different* Clothes Washing Powder with definite advantages, made possible only by the scientific work of expert research chemists. Not a substitute, SEMO supersedes harsh acting, hand-coarsening preparations. Protects sensitive skins while ensuring easier, better, quicker results. SEMO is unequalled for heavy washing. A nationally advertised line with a good profit margin.

8½d NO COUPONS

Sole distributors:—

SPLENDOR LIMITED

22 Fletcher Gate, Nottingham (Tel. 40384) and 7a Lower Belgrave St., London, S.W.1 (Tel. Sloane 9144)

Ninth Edition

Dispensing for Pharmaceutical Students

By J. W. Cooper, Ph.C., and C. Gunn, B. Pharm., Ph.C. A standard work for students preparing for the Qualifying Examinations of the Pharmaceutical Society. It has been revised up to and including the Seventh Addendum to the British Pharmacopoeia, 1932, and the new monographs on Penicillin and its preparations. 16/- net.

Pitman

Parker St., Kingsway, London, W.C.2

The food for

INVALIDS

CONVALESCENTS,

DIGESTIVE SUFFERERS

and the ELDERLY

EASIER TO DIGEST THAN MILK ALONE, Inglis is a highly nutritious oat food, fortified with iron, calcium, phosphorus, vitamins D and B_1. It is particularly easy to digest — even milk becomes more digestible when Inglis is added.

Hospital use has shown that even those suffering from severe digestive disorders benefited from Inglis Food. You can therefore recommend it with confidence.

Inglis Food makes an ideal bedtime or breakfast dish.

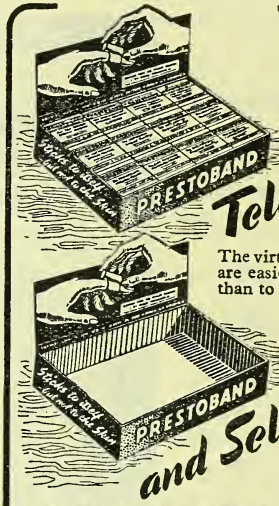
FREE FOR YOUR CUSTOMERS

You are invited to write to the address below for a free supply of Inglis Food booklets "Controlled Digestion"—a useful guide for digestive sufferers.

INGLIS FOOD

CONTROLS ITS OWN DIGESTION

A. & R. SCOTT LIMITED, WEST MILLS, COLINTON, MIDLOTHIAN



Tell them..

The virtues of Prestoband are easier to demonstrate than to describe.

Show it to your customers, and you'll find it sells itself.

and Sell them..

PRESTOBAND

THE ANTISEPTIC SELF-ADHESIVE BANDAGE

Sole Distributors for Gt. Britain & N. Ireland

FASSETT & JOHNSON LIMITED

86 Clerkenwell Road, London, E.C.1

Manufactured only by

J. F. WHITE & CO., LTD.

Lovington Laboratory, Benson Street, Leeds, 7

DRURY'S

INFANTS PRESERVATIVE

Thousands of mothers have used this preparation for over 70 years for the relief of Wind and other discomforts which occur during teething time. For older children it will be found invaluable for bilious attacks and digestive troubles.

Retail Price 1/7 and 3/9 including Tax

Extensive advertising in the Provincial Press is a constant reminder to a receptive public — the Mothers of Babies and young children.

DRURY'S PHARMACEUTICALS LTD

NEWARK ENGLAND

Milward's

NEEDLES . . . . . LEADERS SINCE 1730

Sole British and Empire Distributors (except Canada)

Chas. F. Thackray LTD

Milward's

IRON ARM

Registered Trade Mark

SURGICAL NEEDLES

Two hundred years ago Milward's reputation in needle-making craftsmanship was established. All that tradition has taught and modern metallurgy perfected is reflected in the unusual strength, intense sharpness and mirror finish of the latest Milward's Iron Arm Surgical Needles. Supplies of all standard patterns are available.

Enquiries welcomed. Illustrated Catalogue sent on request.

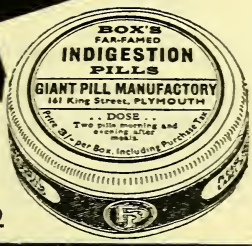
Head Office: THE OLD MEDICAL SCHOOL, PARK STREET, LEEDS, 1
Also at 38 WELBECK STREET, LONDON, W.1

PUBLIC GOODWILL

Box's Pills have kept this Flag Flying for over 50 years and the demand now is greater than ever.

P.A.T.A.

PRICES
(Inc. P. Tax)
1/5 3/4
5/5
13/4 & 24/2



Box's Pills W. H. BOX 161 KING STREET, PLYMOUTH.

Field

Creators of high-class Perfume Compounds and makers of Aromatic Chemicals and Technical Deodorants.

FIELD & Co. (Aromatics) Ltd.,
Alperton, Wembley, Mdx.

WALLACE
BRAND
FINE CHEMICALS
PHARMACEUTICALS
FOR
EXPORT
ENQUIRIES INVITED

WALLACE (Pharmaceutical Products) LTD
198 Finchley Road
LONDON, N.W.3

Telephone: HAM 7627
Cables: WALLACOL, LONDON

'PHERIBAN'
TONIC TABLETS

The new and modern tonic for tired nerves. An ethical prescription on the P.A.T.A. and C.F. lists.

Retails 4/3 per packet

Ample display material

Order from your wholesaler or direct from
MacLENNAN BRAND PRODUCTS LTD.
9 MONTRELL ROAD, LONDON, S.W.2

"Leda"
D·D·T
LIQUID SPRAY
Specially prepared for Household use

NON-INFLAMMABLE. NON-STAINING.
Ready for immediate use.
Full directions on each container.
Also in Powder Form. Samples and prices available to Wholesalers from Manufacturers.

LEDA CHEMICALS LTD
WHARF RD., PONDERS END, MIDDX.
Phone : HOWard 2231 (3 lines)
Sole Agents for N.Ireland: Whyte Reid & Mitchell, Ltd 61/63 Donegall Pass, Belfast.
Sole Agents for Scotland : Southern Mfg. Co. Ltd. 214 West Regent Street, Glasgow, C.2

Regd. "Surgexa" Trade Mark
SURGICAL DRESSINGS - CHEMISTS' SUNDRIES
PATENT MEDICINES
The CHEMISTS' SUNDRIES (Wholesale) CO.
330 STATION ROAD, BAMBER BRIDGE, PRESTON
Telephone 85403

WHOLESALE AND EXPORT
SHAVING BRUSHES
OF QUALITY
Manufactured by
"GUARANTEED BRUSHES"
12/13 WHITECROSS PLACE, WILSON STREET, LONDON, E.C.2. - Telephone : BIS 8277

RECOMMENDED FOR NERVES
DR. NIBLETT'S
VITAL RENEWER
NERVE SEDATIVE
for 70 YEARS
Retail price 6/- per bottle including purchase tax
TRADE DISCOUNT 33⅓%
C. P. NIBLETT (Est. 1870)
10 LICHFIELD TERRACE, RICHMOND, SURREY
Telephone: RIChmond 3221

Inhalation Therapy in Asthma

announcing

RYBARVIN

(INHALANT)

Exempt from Purchase Tax

RETAIL PRICES

½ oz. - - -	7/6	Subject to
1 oz. - - -	13/6	33⅓% discount
4 oz. - -	51/6	and bonus terms

P.A.T.A.

RYBAR LABORATORIES LTD
TANKERTON - KENT

EMBRODEX
REGD. A COMPLETELY NON-STAINING AND QUICKLY ABSORBED PREPARATION OF ETHEREAL IODINE COMPOUNDS BRAND

Embrodex is a preparation with unique penetration and intensified analgesic resolvent action.

In Tubes at 1/10½d. and 3/1½d.
1 lb. tins 13/8d.

Write for Terms

THE MEDICAL SUPPLY ASSN. LTD.
167-173 Gray's Inn Road, London, W.C.1
Telephone: Terminus 5432 (7 lines)

Cyclo

OWN MANUFACTURE
"CYCLOCHEM"
Trademark

LANETTE WAX SX.
GLYCERINE MONOSTEARATE
etc., etc.

Ask for our 24-page Handbook "Cyclochem Self-Emulsifying Waxes"

LAURYL ALCOHOL SULPHONATES
Powder, Paste, Liquid.

EM. 455
Edible Emulsifier
Pure White in block and powder
Ask for samples and special leaflets

CYCLO CHEMICALS LTD.
Wax Refiners and Chemical Manufacturers
MANFIELD HOUSE, STRAND, LONDON, W.C.2

BONUS OFFER
14 to the dozen

HERE IS AN OPPORTUNITY TO SECURE 75% PROFIT ON A CONSISTENTLY ADVERTISED LINE.

JANSSEN'S
Herbal TABLETS

PARCEL No. 1. contains 28, 2/6 size invoiced as 24.
With your regular 33⅓ off and the extra four packets your PROFIT works out at 75% on cost.
Your Invoice Total *(including tax)* **is . . 46/-**
The Parcel sells for 70/-

PARCEL No. 2. contains 14, 5/11 size and 14, 2/6 size, each invoiced as 12.
Your Invoice Total *(including tax)* **is . . 76/10**
Parcel sells for 113/10 Profit 75% on cost.
PLACE YOUR ORDER PROMPTLY—**PLEASE**

DR JANSSEN LTD · 52 BAKER ST · LONDON · W·1
WELbeck 6430

Your Wholesaler has full particulars

Steadily drifting South . . .

Askit
The Safe Remedy

THE POWDER WITH A REPUTATION

For over 30 years Scotland's leading Proprietary Medicine

for the speedy relief of Headaches, Neuralgia, Neuritis and all Nerve Pains.

Manufactured by
ASKIT LTD MANUFACTURING CHEMISTS GLASGOW N

and stocked by
ALL LEADING WHOLESALE HOUSES

Continuous and Steadily Advertised Goods
FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

Retail Price (Protected) Net Wholesale Price
Virus for Rats and Mice, single tube, 2/- 15/- per doz.
3 tubes, 5/-
Virus for Mice only single tubes, 1/6 9/- ,,
3 tubes, 3/-
Date-expired tubes returned to us postage paid will be exchanged free of charge.

Danysz Virus in Liquid Form

Retail Price	Wholesale Price
Bottles 6/- each	4/6 each
,, 4/6 ,, ...	3/9 each

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25 p.c. Monthly Account, or 33⅓ p.c. Cash with Order.

Retail	Monthly A/c	Cash with Order
½ gall tins. 10/-	... 7/6	... 6/8
1 ,, ,, 18/-	... 13/6	... 12/-
5 ,, ,, 80/-	... 60/-	... 53/4

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, etc.

Retail Prices (Protected) Wholesale Prices
In cartons 9d. each ... ... 6/9 per doz.
,, 1/6 ,, ... 13/6 ,,
,, 3/- ,, ... 27/- ,,
Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS

To be obtained from
HALLER LABORATORIES, LTD,
325 Borough High Street, LONDON, S.E.1
Telegrams: "Virudana, Sedist, London." Telegrams: Hop 271

BEAR-BRAND HONEY

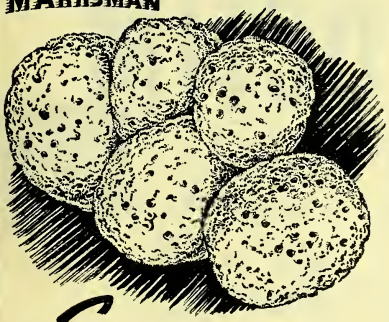
noted for

Purity & Quality

As direct importers from all the main Honey-producing Countries of the World, we can supply Standard Grades of the finest Honey for all Manufacturing purposes.

L. GARVIN & CO. LTD.
ISLEWORTH
MIDDLESEX

MARKSMAN



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NEW PRICE LIST JUST ISSUED.
Send for your Copy TO-DAY.

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An advance in

Asthma

medication

Respaton

TABLETS

Indication

Respaton Tablets are specially indicated for the speedy relief of Asthma, Bronchial Asthma, Bronchitis, Emphysema and cognate ailments.

Action

Respaton Tablets are : Antispasmodic, Antipyretic, Analgesic, Sedative.

Formula

Ephedrine Hydrochloride ...	$\frac{1}{4}$	*grain*
Ext. Bellad. Sicc. B.P. ...	$\frac{1}{10}$	,,
Dioxyamidopyrine	$\frac{1}{2}$	,,
Ipecac. Pulverat. B.P. ...	$\frac{1}{2}$	,,
Theobromine	$\frac{3}{8}$	,,
Calcium Lactate	$\frac{3}{8}$	,,
Lactose	$\frac{3}{8}$	,,

Respaton Tablets are now being introduced to the Medical Profession. Chemists would be well advised to lay in a small stock in anticipation of prescriptions.
In Bottles 25 tablets 4/4d.; 100 tablets 15/6d., inc. P.T. Usual trade terms.

MEDICAL SPECIFICS LTD.
West India House
Maryland Street, Liverpool, 1.

1/- PROFIT *for you*

ON EVERY 3/10 SIZE CARTERS LITTLE LIVER PILLS

YOU'LL find no difficulty in selling the customer a large-size Carters—you have only to tell him he saves 10d. and gets 5 extra pills. Investigations show that one out of every three customers will buy the large-size Carters Little Liver Pills when it is offered. Supplies are readily available. Send your order now and stop losing easy profits!

ORDER YOUR CARTERS LITTLE LIVER PILLS *Now!*

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IBCOL *gives you* BIGGEST *advertising coverage!*

★ The STATISTICAL REVIEW shows that during the period of the last nine months — from August 1947 to April 1948 — IBCOL was the biggest advertiser in the field of disinfectants and germicides. IBCOL backs up your own window and counter displays with National and Local press advertising, posters on Hoardings and Buses, display cards on Tubes, etc.

That's why it pays to display* IBCO *products—They sell on sight!

IBBETSON · STEVENAGE · HERTS

PRODUCTS IBCO

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REGD

makes water work wonders

PRICES DOWN

~~2/2~~ to 1'8

~~1/10~~ to 1'4

New Prices: 10 oz. 1/4
14 oz. 1/8, 40 oz. 4/6

★ Greater demand
★ Increased manufacture
★ Lower production costs
★ National "lower-costs" drive
★ Improved quality

Simmonds Products Ltd.,
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London, S.W.1. Telephone: Whitehall 9346/48.

39.T.

Little-known Limericks — No. 20 (Reprinted)

A headache has worried Brand's Man
Since rationing of foodstuffs began.
His brain is on fire
With a burning desire
To send you as much as he can.

Fair shares for all—that is the policy of Brand & Co. when supplies are short. That is why the Brand salesman, although he cannot meet your full requirements, will offer you a fair percentage of the available supplies. All Brand's products are distributed on a strict quota basis.

Brand & Co. Ltd.

London

Over from France again... in Good Supply!

Vichy-Célestins, world-famous Spa Water from the renowned Vichy State Springs, enjoys the highest medical approval, and is equally popular as a pleasant table drink. Over 40,000,000 bottles are sold annually throughout the world.

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WORLD-FAMOUS FRENCH SPA WATER

Bottled as it flows from the Spring

★ *Sole Agents for the United Kingdom:* **INGRAM & ROYLE, LTD., 12, THAYER ST., LONDON, W.1**
also distributors of the other famous French Spa Waters — Contrexeville-Pavillon, Evian, Vittel.

DESBY'S

pure

HONEY, GLYCERINE & LEMON

Cough Linctus

a popular product at a popular price, made from *real* Lemon Juice, *pure* Honey and Glycerine. The ingredients speak for themselves — you cannot afford not to stock this quick-selling line.

Ask also for particulars of our other pure food products

Sole Distributors in Scotland
Pharmaceutical Distributors Ltd., 187, St. Vincent Street, Glasgow, C.2.

STOCK and DISPLAY — it sells itself

Manufactured by
D. Bee Food Products Ltd., New Charles St., Goswell Rd., E.C.1

WE PAY THE PURCHASE TAX ON THE BONUS!

You must hear about our Free Bonus Scheme.

Eau de Colognes and Lavender Waters—Hair Cream, Bay Rum and Brilliantine — Cologne Lotions and Wave Sets—Perfumed Bath Crystals and other attractive lines are all included in the Bonus Scheme.

Write your name and address here:

Name.....

Address.....

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and post to:

SIR JOHN PRATT & CO.
Manufacturing Chemists and Druggists' Sundries
89 FORSET COURT
EDGWARE ROAD, LONDON, W.2
and we will send you full particulars

IOLOGICAL MBL PREPARATIONS

HE QUALITY OF ALL MBL PRODUCTS IS ABSOLUTELY ENTICAL WITH THAT OF PRE-WAR PREPARATION

ecause of our heavy purchases immediately before war broke out. Our stocks e still considerable and the high MBL standard will be fully maintained.

HERE IS NO SHORTAGE OF ANY OF OUR PREPARATIONS

		Retail Prices (inclusive of Tax)	CHEMISTS' PRICE Per unit Net	+ Purchase Tax	Per dozen Net	+ Purchase Tax
NTIPEOL						
NTMENT	4 oz. tube	7/5	4/2½	+ 1/5	50/5	+ 16/10
	40 gr. „	3/8½	2/1½	+ 8½	25/3	+ 8/5
	20 gr. „	2/1	1/2	+ 5	14/-	+ 4/8
QUID	40 c.c. bottle	3/8½	2/1½	+ 8½	25/3	+ 8/5
PHTHALMO-ANTIPEOL						
gr. Nozzled Tube		3/8½	2/1½	+ 8½	25/3	+ 8/5
gr. „ „		1/9	1/-	+ 4	11/11	+ 4/-
HINO-ANTIPEOL						
gr. Nozzled Tube		3/1	1/9	+ 7	21/-	+ 7/-
gr. „ „		1/9	1/-	+ 4	11/11	+ 4/-
NTEROFAGOS						
x of 50 ampoules		19/-	13/3½	None	159/7	None
„ 10 „		4/3	3/-	None	35/8	None
„ 5 „		2/6	1/9	None	21/-	None
ETENSYL						
n of 500 tablets...		43/-	24/-	+ 8/-	288/-	+ 96/-
be of 50 „		4/11	2/8½	+ 11	32/4	+ 10/10
T. JAMES' BALM						
n of approx. 2½ oz.		3/1½	1/11	+ 7½	22/6	+ 7/6
„ 1 oz.		1/7	11	+ 4	11/3	+ 3/9

Carriage paid on all orders of 1 dozen or £1 and over.
Terms: NETT, Monthly Account.

EDICO - BIOLOGICAL LABORATORIES LTD., LONDON, S.E.25

Hygex

RUBBER CUSHIONED BRUSHES

REVISED PRICES

Following the reduction in Purchase Tax in the recent Budget, retail prices of "Hygex" Rubber Cushion Hair Brushes as advertised in weekly periodicals, in the Press and in trade journals are . . .

IN NYLON 16/-

IN BRISTLE 11/6

IN WIRE 5/10

HENDERSON BROS. & CO. LTD

Burwell Road, London, E.10. *Telephone:* Leytonstone 5202/3

DAYDENT

Reg. Trade Mark

THE DENTAL POWDER

For instantly cleaning and polishing all types of . . .

DENTAL PLATES

Immersion overnight is NOT required

Retail Price 2/6 *Inc. P.T.*

Wholesalers . . . Special Terms

Head Office and Laboratories :

77 NOTTING HILL GATE, LONDON · W.11

Telephone: PARK 6474-5

Tessa

LIPSTICKS *and* REFILLS

Cosmetized from our exclusive American Formula into the Season's latest shades

★ YOU ARE SUPPORTED BY EXTENSIVE ADVERTISING ★

Send for Shade Card and details of Trade terms.

J. DUNHILL MANUFACTURING CO.

47 WOODSTOCK STREET, LONDON, W.1

TELEPHONE: MAYFAIR 1603

PER CENTA THE CONTAINER PEOPLE

(PERCENTA LTD.)

Containers of Metal Glass, Aluminium and Plastic

Tel: Hop 0516 (6 lines)

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GUM DROPS & PASTILLES

Manufactured in FRANCE

All Flavours — All packings, also loose. Large quantities immediately available for export to all countries — Bargain Prices.

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BRITISH MADE

AMPOULE FILES

are now available

We are now in a position to manufacture large quantities of Ampoule Files and invite inquiries

DOMINION STEEL CORPORATION LTD.

"FLEET" WORKS

QUEEN'S ROAD, SHEFFIELD, 2

Cussons

TOILET PREPARATIONS PRICE LIST

Including Purchase Tax reductions and complying with the Miscellaneous Goods (Maximum Prices) Order

Line No.	*Retail Selling Price*	*Description*	*Trade Price* DOZEN	*Purch. Tax* DOZEN
4098	1/4	Whitecross Baby Powder...	8/9	2/10¼
4433	2/7	Imperial Leather Toilet Powder	12/6	12/2¼
4435	2/7	Apple Blossom Toilet Powder	12/6	12/2¼
4438	5/6	Linden Blossom Toilet Powder	26/8	26/-
4440	4/9	Apple Blossom Face Powder (shades as 5394)...	23/-	22/5¼
5386	3/7	Apple Blossom Foundation Cream	17/4	16/10¾
5387	2/4	Imperial Leather Solid Brilliantine	11/3	10/11¾
5394	7/2½	Lipsticks in metal case (Rose Royale, Tudor Rose, Rose Claire, Musk Rose and Natal Rose)	35/-	34/1½
5399	4/4	Mascara (Blue, Black and Brown)	21/-	20/5¾
5400	3/4	Imperial Leather Cologne (Small)	16/3	15/10¼
5401	5/8	Imperial Leather Cologne (Large)	27/6	26/9¾
5410	3/7	Lipstick Refills (same shades as 5394)	17/4	16/10¾
5415	2/2	Imperial Leather Brilliantine	10/6	10/3
5418	4/4	Imperial Leather Bath Essence	21/-	20/5¾
5430	2/7	Imperial Leather Bath Essence	12/6	12/2¼

CUSSONS SONS & CO. LTD, KERSAL VALE, MANCHESTER 7

London Office & Showrooms:

84 BROOK STREET, GROSVENOR SQUARE, W.1

MISCELLANEOUS OPPORTUNITIES

PULV. RHEI E.I, finest powder, B.P. ... ... **4/6** per lb.
(1 cwt. lots 4/3 per lb.)

BITTER ORANGE PEEL quarters at **8½d.** per lb. Duty Paid.
(Bales 70 lbs. each)

Samples from:

KIMPTON BROS. LTD
110 Fenchurch Street, LONDON, E.C.3
Telephone: ROYAL 5544

Glyceryl Mono Stearate, Cetyl Alcohol, Glycerine, Stearic Acid, Petroleum Jelly, Spermaceti Wax, Triethanolamine, French Talc, Zinc Oxide and Stearate, Iso Propyl Alcohol, Liquid Paraffin, Caustic Soda, Lanoline, Nail Varnish, Gums, Waxes, White and Essential Oils.

All Fine and Heavy Chemicals.

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'Phone: Mansion House 0466-9

CARRAGEEN

Grade A—good quality .....@ **80/-** per cwt. about two tons.
Grade B—suitable for manufacturing purposes. @ **60/-** per cwt. about one ton.
Quantities to suit buyers.
Carriage paid. Sacks free.
Hand picked Carrageen in 10½d. packets.
Loughrey Brand .....@ **86/-** per gross
Inquiries invited

THE IRISH MOSS MANUFACTURING CO. LTD
421 Antrim Road, Belfast, Northern Ireland

CHEMICALS · DRUGS · PHARMACEUTICALS AND ESSENTIAL OILS

Available stocks include:
Barbitones, Caffeine Alk. B.P., Chlorbutol, B.P., Coumarin, Glyceryl Monostearate, Iodoform, Lactose, B.P., Phenacetin, Pine Oil, Spermaceti Wax, B.P., Stearic Acid t/p. Vanillin *BOX 3/875*

FRAGRANT LAVENDER FLOWERS (Lamel Brand) with D.D.T. Attractive pack with Cellophane outer, retail **9d., 65/-** per gross, **36/-** half gross, carriage paid, Sample **9d.** Wholesale enquiries invited. Sole distributors, **W. H. BELL & Co., Chemists, 96 Albany Street, N.W.1**

Now available **SACKERS HYGIENIC METAL COMBS**

Will remove Nits, Vermin from hair and scalp

All Enquiries:
SAQUERRE LTD. 62-64 BROOK STREET, LONDON, W.1

REAL VALUES—RAPID SALES

TOOTHBRUSHES—Nylon, assorted colours: Child's 3/9, Adult's 4/8, 5/10, 6/2. Denture 12/2.
COMBS—Gent's 7"—2/10, Ladies' 8"—5/1, Tail 2/1 Fine-tooth 2/10, 4/2. All plus ⅓ tax.

VALE CO., 11 Vale St., Clayton, Manchester, 11

GLYCERINE SUBSTITUTE

Particularly suitable for . . .

COSMETICS AND MEDICINAL PREPARATIONS

For samples and prices write to:—

HOMMEL'S HAEMATOGEN & DRUG CO
121 NORWOOD ROAD, LONDON, S.E.24

TINS

ALL SIZES . . .

from ½ Pint to 1 Gallon in Lever Lid Type and Screw Neck Varnish Tins.

Enquiries for Regular Supplies to:—
BOX 3/423

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in a Development Area in South Wales with a large modern factory, up-to-date machinery and ample labour, are desirous of enlarging their programme so that the facilities available can be used to their fullest advantage. If you are interested in tablet compression and pharmaceutical development, or expert packaging of your tablets, powders, etc., we suggest that you write to us at Box 3/485.

All our products are under strict analytical supervision and control.

Printed by The Haycock Press, Ltd., 106-140 Neate Street, Camberwell, S.E.5, and Published by the Proprietors, Morgan Brothers (Publishers), Limited, at 28 Essex Street, Strand, London, W.C.2. [91/3

The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2.

JUNE 26 1948

Prevailing restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. It is therefore advisable to send instructions as early as possible. All advertisements in this section must be prepaid. Box office numbers 2/- extra.

acancies advertised are restricted to persons or mployments excepted from the provisions of the ontrol of Engagements Order, 1947.

SITUATIONS OPEN

for 36 words or less, 3d. for every additional word

RETAIL (HOME)

EXPERIENCED, unqualified assistant (male or ale), 22 or over. Younger entertained. Win- dressing necessary. All-round dispensing know- e essential. Good wages. Box 3/960.

MY & NAVY STORES, LTD., have vacancies for ensers (qualified and unqualified). Hours 8.45 to 5.30 p.m. Saturday 1 p.m. Full parti- rs to Staff Manager, 105 Victoria St., S.W.1.

DTS THE CHEMISTS have vacancies in a number districts for qualified assistants, male and female. ry (male): Central London, £8 5s. to £9 15s. ropolitan district £7 17s. 6d. to £9 7s. 6d. vinces £7 10s. to £9. (female): Central don £7 15s. to £9 5s. Metropolitan district 7s. 6d. to £8 17s. 6d. Provinces £7 to £8 10s. rding to age. Engagements are on a permanent with good prospects and eligibility for pen- , life assurance, etc. There are also a number vacancies for unqualified assistants fully trained he business and including those dispensers who been released by doctors, etc. Good remunera- with a view to permanency, pension scheme, Applications should be made to Retail Staff artment, Station St., Nottingham, stating age, rience and district required.

PENSER, either sex, Hall Certificate preference. uanency. Modern well-equipped pharmacy. d-class business and locality. Easy access Lon- and Epping Forest. Comfortable working con- ns. Hours 9-6. No Sunday duty. Generous y. Interview. L. Matthews, 25 High St., stead, E.11.

LSTOWN INDUSTRIAL Co-operative Society, , invite applications for the position of phar- y manager and optician, for their new and o-date department. The society has a member- of 8,000 with an annual turnover of £400,000 the position offers good scope on account of her pharmacy branches being opened. .C.O. scale of wages with superannuation me (transfer clause) in operation. Good house lable. Centrally situated. Apply by letter, g age, details of experience and present em- er, to The Managing Secretary, 23 Earle St., ton-le-Willows, Lancs.

S. REQUIRED, lady or gentleman, to manage ern business in residential area. Apply, 24 or Lane, Quinton, Birmingham. Tel. Woo

NAGER required for old-established distributors hemists' sundries; satisfactory salary offered; rtunity for right man to become managing tor. Only those with experience in similar ness considered. Apply, giving full experience qualifications. Box 3/951.

MANCHESTER AREA. Qualified or experienced unqualified assistant required (either sex) to help in busy pharmacy. Generous salary and permanent position offered to suitable applicant. Apply personally or by letter, stating full particulars, to Keats, Dispensing Chemists, 71 Market St., Droylsden.

MIDDLESEX. A capable pharmacist is required to manage a good-class pharmacy in Twickenham. Good salary to experienced man able to control staff and stock and extend business. Apply Box 3/844.

NORTH-EAST DURHAM. Your opportunity if ambitious. Young pharmacist (either sex); good salary; excellent prospects; duties, manage retail department (large staff) of old-established retail and wholesale firm. No extra duties. Box 3/909.

QUALIFIED ASSISTANT MANAGER required for West End pharmacy. Good salary, staff profit-sharing scheme and pension scheme available. Staff roster system allows convenient hours. No Sundays. Write or phone, George's (Chemists), Ltd., 21 Irving St., London, W.C.2. Whitehall 3774.

QUALIFIED LADY dispenser/bookkeeper wanted to commence duties end of August. Previous experience desirable. Country practice in Essex. Half-day and no Sunday duty. Dr. M. Lee, Danbury, Nr. Chelmsford.

QUALIFIED ASSISTANT, male, required for high-class pharmacy, counter and some dispensing. Permanency; good salary. Chave & Jackson, Ltd., Hereford.

SEVERAL UNQUALIFIED GENTLEMEN are required by a well-known London firm in the following areas: Barking, Burnt Oak, Harrow, Edmonton, Highgate and Hammersmith. There is a salary ranging from £325 to £375 per annum, according to experience. Applications in first instance to Managing Director, Box 3/938.

SOUTH LONDON. Pharmacist, used to good-class family business, wanted shortly to manage branch near the Crystal Palace. No living accommodation, but satisfactory terms offered to capable man. Apply Box 3/845.

SUNDERLAND, Co. Durham. Young qualified chemist required to take charge of dispensing. Good prospects. Permanent. No extra or Sunday duty. Hours 9-5.30. Apply Box 3/950.

TWO PHARMACIST BRANCH MANAGERS required, also a Pharmacist. Reply stating age, experience and salary required to Superintendent Pharmacist, Manchester & Salford Co-operative Society, Ltd., 67 Downing Street, Manchester, 1.

UNQUALIFIED ASSISTANT (male or female) required with dispensing experience. Permanency offered. Apply with usual particulars to A. H. Clark, M.P.S., 24 The Broadway, Maidstone, Kent.

WANDSWORTH, S.W.18. Pharmacist required to manage a family business (dispensing) in good-class residential area. Permanent appointment; good salary and conditions. Regret no living accommodation. Apply Box 3/846.

UNQUALIFIED ASSISTANTS, men and women mainly for dispensing, required by London chemist. Apply "G", Box 3/926.

YOUNG PHARMACIST, recently qualified and well trained required for chemist shop: Excellent prospect. Accommodation can be provided. Apply Box 3/972.

LOCUMS WANTED

LOCUM PHARMACIST to take charge during July and August. Also permanent manager. N.W. London. Apply "A", Box 3/927.

QUALIFIED LOCUM required until September 18. Must be able to take full charge. No half-day or Sunday duties. Goldthorpes, 10 Powis St., Woolwich, S.E.18. Woolwich 0403.

WHOLESALE

ACTIVE REPRESENTATIVES required to sell cotton wool on a 10 per cent. commission basis. This opening is available in all parts of England and Wales and Northern Ireland to representatives who have live connections, amongst Co-ops. and departmental stores only. Apply immediately to Managing Director, Box 3/918.

AN ESTABLISHED firm of manufacturing chemists and distributors requires superior representatives for the following areas to take over existing connections. Must have strong connections with hairdressers for sale of exclusive French cosmetics, perfumes, etc., and also of an exclusive range of ornamented combs, jewellery, etc. Remuneration preferably by commission only, but would consider part expenses and commission. (1) Yorkshire; (2) Northumberland and Durham; (3) Surrey, Hants; (4) Middlesex, Herts, Bucks, Oxon, Berks. Write, Box 3/922.

COMMISSION AGENTS required to sell to chemists and druggists in the North, East Anglia, the Midlands, and the West Country, nationally advertised patented line. Full sales aids, including lists of customers provided. Eneregtic men with proved sales records and good connections should send full details of lines now carried, territory covered, whether car owner and frequency of call on customers, to Box No. 254, Dorland Advertising Ltd., London, S.W.1.

CORNWALL, Devon and Somerset. Manufacturing chemists marketing nationally advertised toilet and medicinal products require experienced sales representative to call on chemists and grocers in West Country territory. Motor-car provided; superannuation scheme available. Write, giving details of age, experience and salary required, to Box 3/969.

GLAXO LABORATORIES, LTD., invite applications for the post of medical representative in Eire. Pharmaceutical experience and qualifications are essential. The successful candidate must have a thorough knowledge of the country. The position offers interest and scope to keenly intelligent and industrious man aged between 25 and 30. Apply by letter only, stating full details of education and business career, as well as giving the usual personal information including age and height. A photograph should be enclosed if possible, but no testimonials should be sent in the first instance. Address applications to: The Personnel Manager, Glaxo Laboratories, Ltd., Greenford, Middlesex.

HOME SALES MANAGER required for pharmaceuticals division of British Schering, Ltd. Applicants should be experienced in the distribution and sales promotion of ethical pharmaceuticals in the Home market and conversant with the administration of the requisite indoor and outdoor staffs and with current legislation affecting the pharmaceutical trade in the United Kingdom. Applications, which will be treated in confidence, should be addressed to "Joint Managing Directors," and marked "Sales Manager."

LANCASHIRE, CHESHIRE, and North Wales areas. Representatives required to call upon chemists. Well-established C.F. lines. Salary and expenses. Preferably car owners. Please write, giving age, full experience, connection, if any, to Box 3/872.

LONDON PHARMACEUTICAL HOUSE, well-known for its research and propaganda work, especially in the field of nutrition, has vacancies for medical/trade representatives residing in or near Cardiff, Birmingham and Bristol. Pharmaceutical experience an advantage but not essential as character and ability to "cope" are more important than previous knowledge. Commencing salary £400, with full expenses. Pension. Write in first instance, Box 3/970.

MANUFACTURING CHEMISTS, N.W. London, have vacancy in their pill factory for an assistant with previous experience, or willing to learn the trade, resident in London area. 5-day week. Write stating age, details of previous experience. Box 3/956.

MANUFACTURING CHEMIST of packed drugs, galenicals and toilet preparations require experienced representative to take over well-established connection in the South London area. Only first-class man with live connection chemists need apply. Good salary and commission. Write in confidence, to Box 3/862.

NORTHAMPTON, Bedford, Oxford, Bucks and Berks. Experienced representative required to sell to chemists and grocers, nationally advertised toilet and medicinal products. Car provided. Superannuation scheme operative. Write, giving details of age, experience and salary required, to Box 3/967.

OLD-ESTABLISHED manufacturing chemists have openings for experienced representatives requiring additional lines (well-known toilets and medicinals) for the following territories: Scotland, North of England, Midlands, Wales, West Country and Home Counties. Please give full details of territory covered, age and remuneration expected, etc. Box 3/979.

PILL AND TABLET COATER. Experienced in all types of coating work, resident in London area, required by manufacturing chemists working 5-day week. Apply with full details of past experience, age, and salary required. Box 3/957.

PROGRESSIVE London exporters with well-established overseas connections have vacancy for a departmental manager to take full charge of chemicals (fine and heavy), essential oils and drugs. Only persons with previous experience in the trade and knowledge of export markets, able to work on own initiative considered. The position offers considerable scope for a man with drive and capacity for hard work. State age, experience and salary required, to Box 3/965.

REPRESENTATIVE with first-class experience required by the manufacturers of "4711" perfumery and cosmetics, to work Glasgow and West of Scotland. Applicant please state age, salary expected, when disengaged and full particulars. Replies will be treated as strictly confidential. Car provided. Please reply in the first instance by letter, to R. J. Reuter, Co., Ltd., "4711" Factory, Bedford Avenue, Slough, Bucks.

REPRESENTATIVES calling on chemists, hairdressers, stores and Co-ops. required, having repute for sale of perfumery and cosmetics in the Home Counties, East Anglia, Midlands and West Country. First-class men with good sales records and connections essential. Apply, with full details, territory covered, etc. Salary, expenses, commission. Box 3/980.

REPRESENTATIVES required for exclusive territories in England on high commission basis, by well known perfumery and soap manufacturers. Must have connection with stores and chemists, etc. Every co-operation given. Write in confidence Box 3/955.

REPRESENTATIVES (either sex) required for S. Wales, Yorkshire, Durham and Northumberland etc., by London wholesale house, calling chemists stores, haberdashery and baby shops, to carry ladies sanitary and toilet goods, surgical dressings, babies sundries and haby. lines. Live accounts, full support given. Box 3/958.

PRESENTATIVE required for Lancashire and rkshire areas, calling on Co-operative societies, res and chemists, with full range of sundries and ncy goods, to take over existing customers in se areas. Write, giving age, experience, refer-ces and whether car owner. Wages £5 per ek and commission. Box 3/961.

PRESENTATIVE required resident in Leeds or st Riding area for first-class national and ex-rt drug house with full range of pharmaceuticals, cked specialities, tablets, capsules and also giving l service in druggists' sundries, patents, etc. ualified man preferred, but must be experienced veller with wide personal contacts with trading armacists only. Salary, expenses, commission and nsion scheme are available. Full particulars to x 3/966.

PRESENTATIVES for Midlands sundries' house; ust be young with own connection retail chemists. r owners preferred. Vacancies in Oxfordshire, ucestershire, Herefordshire, Shropshire, Che-re, North and South Wales, Wiltshire and mersetshire, etc. Wage, commission and ex-nses. Progressive for right men. Box 3/925.

PRESENTATIVES REQUIRED to call upon chemists, ll-established C.F. lines. Salary and expenses. eferably car owners. Eastern counties and uthern England areas. Please write, giving age, full ails of past experience, connection if any, to me Sales Manager, Westminster Laboratories, d., Chalcot Rd., N.W.1.

PUTABLE MANUFACTURERS of high-class toilet oducts require one good representative to cover otland. Must be car owner. Established intro-ctions to wholesale and retail chemists, hair-essers, stores, etc., essential. Generous commission d expenses allowance. Box 3/953.

LES REPRESENTATIVE required by well-estab-ed toilet brush company for South London. ust have own car. Salary, commission, expenses. ite, full details age, education, experience, to x 3/946.

UTH-EAST SCOTLAND. Experienced represen-ive required to sell to chemists and grocers tionally advertised toilet and medicinal products. erannuation scheme operative. Car an advan-e. Write, stating details of age, experience and ary required, to Box 3/968.

BLET MAKER experienced in routine tablet duction required by well-known firm of manu-turing chemists in Home Counties. Apply in ting, stating qualification, experience and salary uired. Box 3/940.

WHOLESALE (OVERSEAS)

UTHERN RHODESIA. Qualified chemist as sales-n and manufacturing assistant for well-known uth African Company commencing operations in odesia. Keenness for salesmanship and practical round knowledge of manufacturing essential. eferably single, car driver, and must be prepared work hard as position holds excellent prospects. ply Box 3/939.

SITUATIONS WANTED

for 18 words or less, 1d. for every additional word

RETAIL (HOME)

OTHECARY HALL dispenser, 24, 3½ years' hos-al experience, seeks hospital or public dispensary t in North or Central London. Box 3/959.

EN, ENERGETIC assistant, 40, married, unquali-d, desires permanent position. Fully experienced branches of pharmacy. 15 years' West End. eptionally experienced in window display. H. Kay, c/o Flemings, 7 London St., W.2.

WHOLESALE

ADVERTISER with super sales record seeks position representing established house. Live connection chemists London and Home Counties North of Thames. Capable of sales organisation, and training men in the field. Box 3/963.

CAPABLE MAN seeks position as foreman, supervisor, storekeeper or similar. Very good experience of the trade, wholesale and export, all departments including packs. Box 3/954.

CHEMIST ASSISTANT desires berth in wholesale office or stores, West or South-West. Box 3/977.

PROPRIETARY MEDICINE and cosmetic representative, experienced in developing new territory, appointing agents, etc., desires progressive position travelling abroad. Advertiser is single, well educated, good organiser, and full of initiative and confidence. Box 3/982.

REPRESENTATIVE. Experienced, excellent connection chemists and stores in Cheshire, Yorkshire, Midlands and North-East Coast. Salary, expenses and commission. Box 3/945.

REPRESENTATIVE with sound connection North East Counties, calling on wholesale and retail chemists, Co-ops, department stores, requires additional line. Commission basis. Car owner. Box 3/981.

WORKS MANAGER. Chemist, 23 years' wide experience in large scale manufacture of pharmaceuticals, galenicals, fine chemicals, vitamins, and amino acids, etc. Capable of planning and layout of plant, sound administrative ability; used to handling labour, seeks position in London or Home Counties. Box 3/932.

APPOINTMENTS

CITY OF BRADFORD
ST. LUKE'S HOSPITAL

Applications are invited for the post of Female Student Pharmacist.

Candidates for this post should have obtained or be shortly sitting for one of the following certificates:—B.Pharmacy; Inter B.Pharmacy; Inter Pharmacy Examination; Pharmaceutical Society.

The salary, if the student pharmacist has obtained the degree of B.Pharm., before taking her practical training in hospital, will be in accordance with the recommendations of the Joint Negotiating Committee (Hospital Staffs). Otherwise the salary will be in accordance with the General Division of the National Scheme of Conditions of Service, i.e., £108-£308 per annum according to age.

This appointment is subject to the terms of the Local Government Superannuation Act, 1937, and the person appointed will be required to pass a medical examination.

Applications, giving full particulars, should be forwarded to the Medical Superintendent, St. Luke's Hospital, as soon as possible.

W. H. LEATHEM, Town Clerk.

Town Hall, Bradford.
June, 1948.

MANSFIELD & DISTRICT GENERAL HOSPITAL, MANSFIELD, NOTTS

Applications are invited for the post of Assistant Pharmacist which will be vacant on 9th July 1948. Salary scale, £370 per annum with annual increments of £15 and one of £20 to £450 per annum. Commencing salary within the scale according to experience. Federated Superannuation Scheme in force. Newly qualified Pharmacist would be considered. Applications, stating age, details of experience, together with two recent testimonials to be forwarded to the undersigned as soon as possible.

A. ASHWORTH,
House Governor and Secretary.

KING'S COLLEGE HOSPITAL, DENMARK HILL, S.E.5

ASSISTANT PHARMACIST (registered) required. Salary and hours in accordance with the J.N.C. revised scale. Superannuation scheme in operation. Applications, with details of experience should be sent to The Pharmacist at the above address.

ROYAL EASTERN COUNTIES INSTITUTION FOR THE MENTALLY DEFECTIVE, COLCHESTER

Applications are invited for the post of Senior Assistant Pharmacist. Salary £415 to £490 per annum. Similar experience will determine commencing salary. Superannuated. House will be provided. Apply Medical Superintendent, Central Office, Abbeygate House, Colchester.

SURREY COUNTY COUNCIL

EPSOM COUNTY HOSPITAL, Dorking Rd., Epsom.

ST. HELIER COUNTY HOSPITAL, Carshalton.

ASSISTANT PHARMACIST required. Commencing salary on grade £370 x £15—£430 x £20—£450 per annum inclusive. Applications, stating age, qualifications and experience, with copies of testimonials, should be sent to the Medical Superintendent of the appropriate Hospital.

AGENCIES

17/6 for 36 words or less, 4d. for every additional word

AGENTS WANTED to sell Noda deodorant cream and other lines. Exclusive and guaranteed territories. Apply with fullest particulars, to M.C.C., 49 Clapham High St., London, S.W.4.

LONDON AND EXPORT agency of a well-established manufacturer required for products of interest to wholesalers, shippers, and overseas importers. Experienced sales staff available. Primosette Co., Ltd., 99 Kingsland High St., London, E.8. Telephone Clissold 1717.

AGENCIES WANTED

8/6 for 36 words or less, 3d. for every additional word

NEW ZEALAND. Manufacturers' representative returning to Auckland in August requires several additional sole agencies from reputable British manufacturers. Firms interested are invited to communicate with Hillard McMullen, 43 Mountview St., Belfast. Phone 28193 Belfast.

WELL-ESTABLISHED REPRESENTATIVE covering wholesale and retail chemists, departmental stores throughout Lancashire, embarking on career as agent, would be pleased to hear from interested firms of repute. Own car. Telephone. Box 3/971.

BUSINESSES WANTED

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PHARMACEUTICAL chemical manufacturing facilities required. Would purchase wholly or partially suitable establishment with scope for development. Full particulars to Box 3/962.

BUSINESSES FOR DISPOSAL

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DRUG STORE, immense scope for dispensing; no opposition; densely populated area. Large shop, modern property, ample living accommodation, garden. Rent £150 p.a. £2,000 all at. Clarence Business Agency, Clarence Rd., Southend-on-Sea.

MAIN STREET, BEDFORD. Herbal stores with large surgical rubber trade. Long lease; rent £100, exclusive. Eight rooms, yard, outbuildings, side entrance. Electric, gas. Stock, fittings, goodwill, lease, £2,000. 'Phone Bedford 5430.

OPPORTUNITY to acquire manufacturing company, making high-class pharmaceutical products. Necessary capital £6,000. Apply Box 3/976.

WHOLESALE CHEMIST sundries' business for sale Established 1920. Doing fairly large turnover. Situated in good thoroughfare in Glasgow. Security of tenure assured. Full particulars from 0360, Wm. Porteous & Co., Glasgow.

BUSINESS OPPORTUNITIES

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FLAT BOTTOM GLASS TUBES, $\frac{5}{8}$". Contracts wanted in any size. Dunford, Glassworks, 107B Westgate, Wakefield, Yorks.

MANUFACTURING CHEMISTS have facilities and space available for the manufacture and/or packing of domestic, industrial or toilet products. Bottle, powder and tube filling. Frank Macowal, Ltd., 30 Loughborough St., S.E.11. Reliance 3435.

SOLE DISTRIBUTOR for Home market wanted for important ethical line who is interested to invest for medical propaganda. Write Box 3/978.

MISCELLANEOUS SALES

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BLOCK STEARINE. Ton, packed in 1-cwt. bags. M.P. 120-122° FFA 98.5, 2/- lb. x/wf. London. Box 3/888.

FOR DISPOSAL. 1-oz., 2-oz. and 4-oz. toilet bottles and 10-oz. cylindrical ambers. In lots of not less than 2 gross. Write for samples and prices. Deb Chemical Proprietaries, Ltd., Spencer Rd., Belper, Derbys.

HOBART MIXER. 80 quart 2 h.p. single phase motor, 220-250 A.C. 4-speed to beater shaft, 2 new beaters. £350 or best offer. Golden Valley Chemical Works, Ltd., 20 Gloucester St., Stroud, Glos.

SURPLUS. Triple pressed stearic acid available; also a few cwt. glycerine. Box 3/974.

WATCH SPRING PESSARIES. Large surplus stock, all sizes. What offers? Also Ext. Ipecac. Liq., B.P. Box 3/975.

FOR SALE

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FOR SALE. Hemel No. 6 combined mixer and grinder. £70 or near offer. Box 3/973.

SURPLUS STOCK. 80 doz. 2-oz. brilliantine oils; 40 doz. 2-oz. violet oils; 42 doz. 15-c.c. perfumes; packed in boxes. Offers wanted. Prepared to clear at any price. Chas. Suttle & Son, Manufacturers, Bingley, Yorks.

SURPLUS STOCK, liquid paraffin, B.P.; one original unopened drum, 45 gallons; also 28 lb. glycerine, B.P. First best offer for either or both secures. Carriage paid. Box 3/952.

WANTED

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OPEN TO BUY surplus drugs, chemicals, small bottles, etc. Large established connection amongst wholesale and manufacturing chemists, United Kingdom. Wholesale quantities only. Samples, prices and packings to G. Roland Harvey, 29 Hampstead Hill Gdns., London, N.W.3.

STEARIC ACID, triple pressed, required in large quantities. Box 147/850.

STEARIC ACID, triple or good quality double-pressed, required in large or small quantities. Offers to Box 3/884.

WANTED. Phenacetin, glycerine, required by manufacturing chemists. Offers to Box 2/307.

WANTED FOR EXPORT, $\frac{1}{2}$-minute clinical thermometers, Fahrenheit scale, bleaching powder, saccharine, glycerine, acid salicylic, B.P. K. T. Mirchandani, 11 Mulgrave Rd., East Croydon, England. Phone Cro. 0951.

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